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St. Mary's



1877

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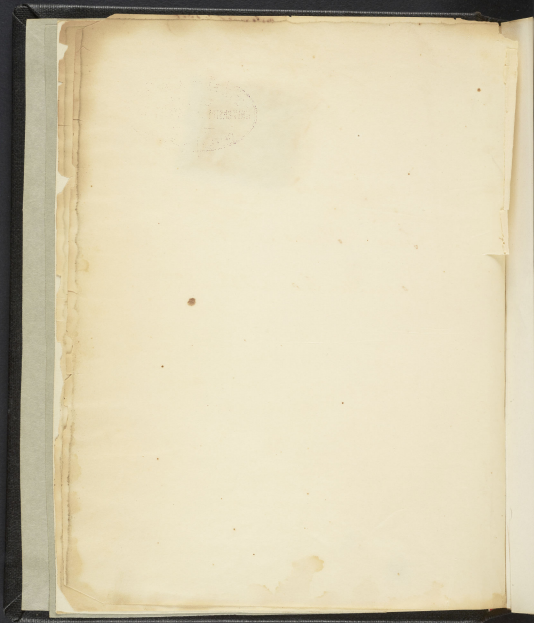
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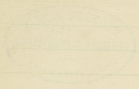


Sam^l Jones

Feeder of Philad^a. of 1020

admitted March 29th 1822

1875



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A Dissertation
on the
Causes, Nature, Symptoms, & Treatment,
of the
Endemic Fever
which prevailed in the city of
Philadelphia
during the Summer of
1826.
Exhibiting a Pathological division,
of the
Yellow Fever
into four, distinct, classes,
with the diagnostic signs, & treatments
appropriate to each.
by
Samuel Jones.

"Plus operis habet, quam ostentationis."

Quint.

To

Nathaniel Chapman. M. D.
Professor of the Institutes, & Practice of Physics
And Clinical Practice, in the
University of Pennsylvania.
P. C. &c.

My very distinguished preceptor, and friend.
In dedicating this work to you, permit me to
acknowledge, how much I owe, to your talents as a
teacher, and to declare my unequalled admiration
of those exalted virtues, which throw an imperishable
lustre, around your name.

When Rush, the oraculum medicinae
of America, full of years, of honours, and blessed
with the affections, of his Countrymen; obeyed the
mandate, which called him to his reward, to you,
the genius of medicine, entrusted his robe, and
his commission.

That you may long live, to extend the
limits of science, to dispense those truths, which

while they improve the understanding, expand
the soul with benevolence, and are full of bless-
ings to mankind. That you may long live, the
people's hope, when the devastating pestilence,
threatens, is the sincere prayer, of one who values
himself the more, for having been your student,
The Author.

To
Philip Syng Physick, M. D.
Professor of Anatomy, in the
University of Pennsylvania, &c. &c.

So honourably associated, in the recollection,
of every American Physician, with the disease which
is to be the subject of the following pages; there would
seem to be a propriety, in the liberty I am taking,
of introducing your name, in this place.

Sudden, and terrible, as the sirocco of
the desert, the disease, which in periods not

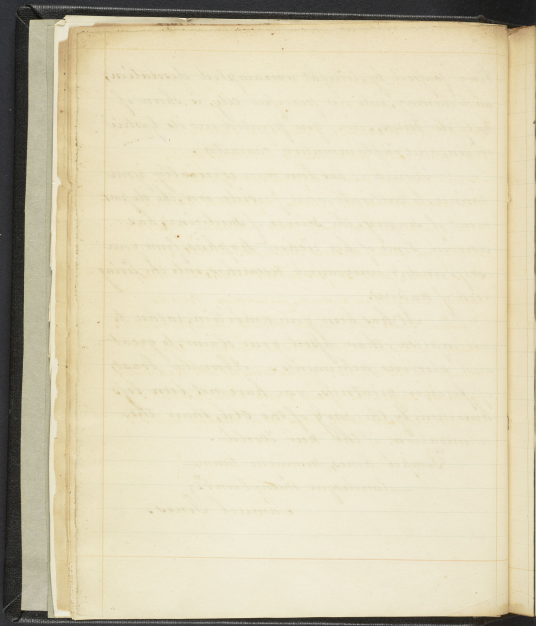
long passed by, brought unexampled desolation, and dismay, into our peaceful city, is shorn of half its terrors, since you pointed out its gastric origin, and inflammatory character.

Though it has been more especially your province, to cultivate, and preside over, the department of Surgery, the Science of Medicine, has derived some of her richest trophies, from your profound, & unvaried researches, into the living book of nature.

It has been your ambition, rather to accomplish, than assert your claim, to great and glorious achievements. Above the boast, of foreign greatness, you have not been less honoured, by the envy of the old, than the admiration, of the new World.

"Semper honos, nomenque tuum
—laudesque manebunt."

Samuel Jones.



66
Tinea torrentis primis, flammæque latentis
Indicium, rector est, & ductus anhelitus ægris.
Aspera lingua sumet, præjudique mentis, omnis
Bra patenti, auræque graves, captantur heatus.
Non stratum, non ulla pati, velamina, possunt:
Tantaque sunt miseris insisi tædia lecti;
Prosilium, aut, si præhibent consistere vires,
Corpora decedunt in humum, fugiantque Penates
Quisque suorum sua cuique, domus funesta viletur.
Quum visum, mortale malum, tantaque latebat
Causa, nocens cladis; pugnatum est, arte, medendi;
Exitum superabat opem; quæ victa jacebat.
Et, quia causa latet, locus est in crimine notus.

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On opening the door, to the bedside of the patient, and comparing what we see, and what we feel, with the massive volumes, which in other times, have laboured to unfold the causes, the nature, and the treatment, of fevers; What are the distorted images of the imagination, and of a sickly credulity, which start up before us; our senses are appalled, not edified.

Conceived in the brain, intoxicated with the mania of explaining every thing, nourished by splendid, and imposing, hypotheses, and defended from decay, by this imperishable qualification, *Ipse dixit*; false theories, have begotten false facts, and these in their turn, have begotten other theories, upon whose wreck, others have been erected.

Pursuing rather the glittering ignifatus, of imagination, than the pure, and sacred light of truth, such illusions have been common in the history of the human mind, wherever medicine has had a disciple, or science a votary.

THE HISTORY OF THE
CITY OF BOSTON
FROM THE FIRST SETTLEMENT
TO THE PRESENT TIME
IN TWO VOLUMES
BY NATHANIEL BENTLEY
OF THE BARRISTER AT LAW
IN GREAT BRITAIN
AND OF THE CHURCH
OF ENGLAND
IN TWO VOLUMES
THE FIRST VOLUME
CONTAINING THE HISTORY
FROM THE FIRST SETTLEMENT
TO THE YEAR 1700
THE SECOND VOLUME
CONTAINING THE HISTORY
FROM THE YEAR 1700
TO THE PRESENT TIME
LONDON: PRINTED BY J. BELLAMY
AT THE SIGN OF THE SHIELD
IN ST. MARTIN'S LANE
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It is time for those, whose task it is, to unlock
for us the treasures of nature, to come out of their closets,
to breathe to the flames, the gilded theories, and
learned dreams of library mongers, and from nature's
unfolded pages, printing disease as it is.

The present is, an auspicious moment, the
horizon of medicine, glows with a light, transcending
all the past. Science ceases to sigh, and with-
in his care, but expanding his wings, in the
pure atmosphere of truth, rejoices in, dissemination
of wholesome knowledge.

It is a pity, when Facts, are only
counted, the soul of science, and the philosophy of
medicine, the passport of pages, which have been handed
down, through centuries of time, unaltered, and unaltered,
amid the revolutions of systems, and hypothesis, which have
perished and are forgotten. Facts are the only legacy,
which can ensure to immortality.

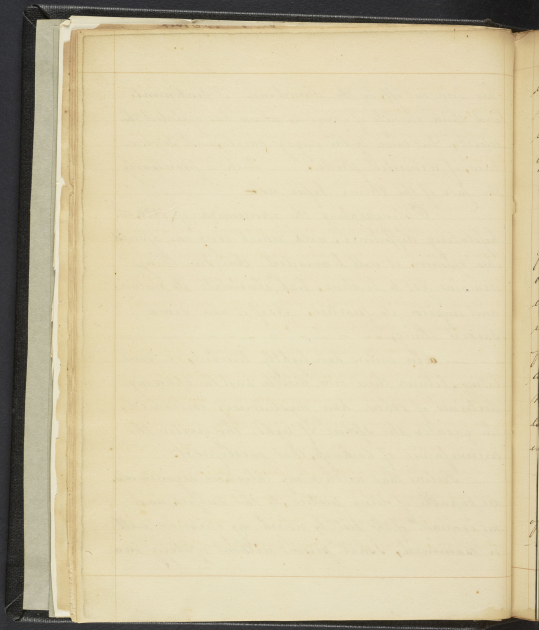
But many important points, are yet in
debate, in which every approach to truth, has

has been cut off, by the discordance of sentiment,
and thick obscurity of opinion, which has agitated the
wisest, but more by the angry cavils, and sophis-
tries, of wounded pride. Such is peculiarly
the fate of the theme before us—

Contemplating the epidemick of 1820, the
hesitating diffidence, with which every one asserted
his opinion, it will be conceded that something
remains yet to be done, both "elucidate its nature,
and improve its practice. As if it were some
sacred thing,

— — — — — all writers have lightly touched, or, facili-
tating, between their own doubts, and the opposing
doctrines of others, have mysteriously exclaimed,
the greater the sphere of light, the greater the
circumference of darkness, that envelops it.

Feeling that neither my talents, nor, acquirements,
are capable of doing justice, to this subject, and
not ignorant of the test by which my opinions will
be examined, I shall present without apology in a



in a manner as plain, and intelligible, as I am able, what facts I have thought interesting, and what opinions have appeared to me the legitimate offspring of facts.

It is, as well known, as any historical facts, that whenever yellow fever has appeared in our city, the diseases of its vicinity, and of great extent of adjacent country, have shewn in various degrees, an imitative aspect, being the highly inflammatory forms of Bilious remittents, Cholera, and Dysenteries, unusually intractable, and mortal; the disease in some sections of the country, taking on the same symptoms, and little inferior in malignancy, to the unshorn yellow fever, itself.

This was strikingly true of 1826.

It is equally notorious, that during the reign of Typhus, I mean the Typhus Petechialis, of Russia - England, whose slow but deadly march, except the

1847. The first of the year was a very cold one, and the
winter was unusually long and severe. The snow lay on the
ground for many weeks, and the frost was very hard.
The crops were all killed, and the stock was
starving. The people were very poor, and many
died of hunger and cold. The spring was very
late, and the crops were all killed. The summer
was very hot, and the crops were all killed.
The autumn was very dry, and the crops were all
killed. The winter was very cold, and the
snow lay on the ground for many weeks.
The spring was very late, and the crops were all
killed. The summer was very hot, and the crops
were all killed. The autumn was very dry, and
the crops were all killed. The winter was very
cold, and the snow lay on the ground for many
weeks.

the whole face of our country, (I mean to be forgotten by the Author or by Medicine bereft of the illustrious name, which gave her a character, and raised the literary glory of our country.) Doing homage to its fiercer, feebler forms of disease, every where put on its livery.

Bilious and inflammatory fevers were less frequent, no case of decided yellow fever, put out its head, and for a time the lancet was almost laid aside.

Since the subsidence of that form of disease, Cholera, Dysenteries, the Bilious Remittents, &c., have again sprung into existence, and have given the fashion to the diseases, throughout our country, and increasing in strength, seemed to announce the approach of the yellow fever, which has at length arrived.

Hence, it would seem that Typhus and Yellow fever, are antagonising powers. The one retires, as the other advances. They choose for their devastations, different periods of years, and dif-

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different seasons, the one comes out in the noon of midsummer. Its fumes haunt the crowded city, whose foul exhalations, being undisturbed by the the salubrious breeze, that sweep the adjacent plains. It revels on the hotbed, of putrescent materials, now fermenting under a tropical heat. It lurks in greatest vigour, along the humid air of the peatmoor, mingling its own poisonous breath, with the foul distillations, there eliminated, and having thus acquired that force, without which it had been inert and innocent, it assails whom it will, with fiendlike destruction.

Whilst the other comes out in the chill damps of winter, takes a less discriminative range, but tarries rather, in the ill-fated hovel, of the poor and comfortless.

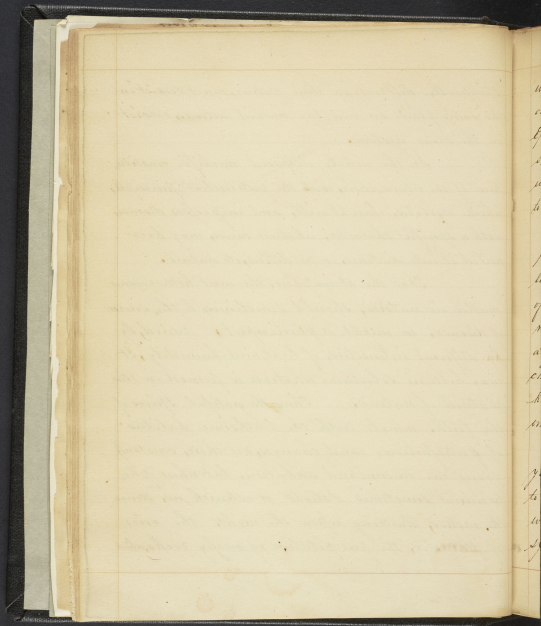
In the wise disposition of events, we see this mercy in the pestilence; They never go hand in hand to the slaughter. I believe it is a law, which never errs, that two epidemics, specifically

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Specifically, different, in their nature, can not coexist in the same place, nor can two morbid actions, coexist in the same system.

In the widely diffused morbid constitution of the atmosphere, exists the pestilential principle, which vegetates, where it will, and impresses disease, with a specific character, whatever cause, may have called it into existence, or modified its nature.

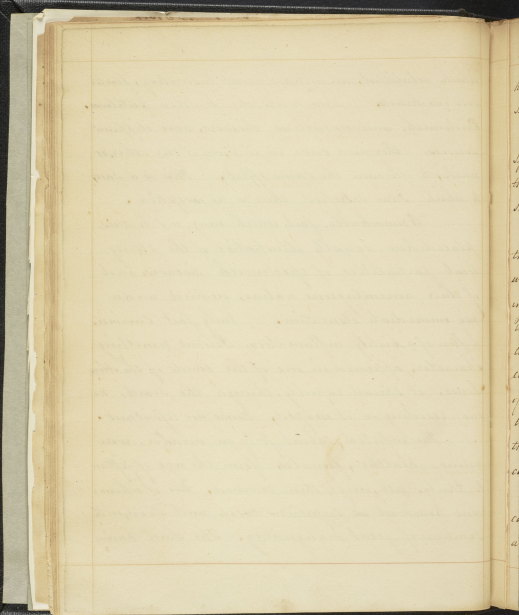
That the atmosphere, the most heterogeneous matter in nature, should sometimes, be the source of disease, we might a priori expect; varied, by different intensities, of heat, and humidity, it may hold in solution, whatever is formed in the Materia of nature. And the grateful spices of the field, mingle with the loathsome halitus of putrefaction, and changes, are there, constantly going on, unseen, and unknown, but whose phenomena sometimes delight or astonish us, hence the meteor, dancing upon the night, the voice of thunder, the precipitation of smoky rocks, which



which, polished, in nature's great laboratory, floats
over our heads. Then move the hidden pestilences,
Epidemick, and contagious diseases, have different
sources; they never come in aid, one of the other, or
unite, to produce the same effect. This is a Law,
to which I am satisfied there is no exception.

A remarkable fact, which, may not be mis-
placed here, equally illustrative of the strong
local partialities of epidemick diseases, and
of their noncontagious nature, occurred under
my immediate observation. Early last summer,
a fever of a highly inflammatory, Bilious, remitting
character, appeared in one of the wards of the Alm-
house, it spread rapidly, through the ward, no
one residing in it escaped, Nurse nor Assistant.

The infected, about forty in number, were
young, healthy, females, from the age of fifteen
to thirty, all, except three recovered, two of whom
were removed as suspicious cases, and died, with
symptoms of great malignancy. The third having

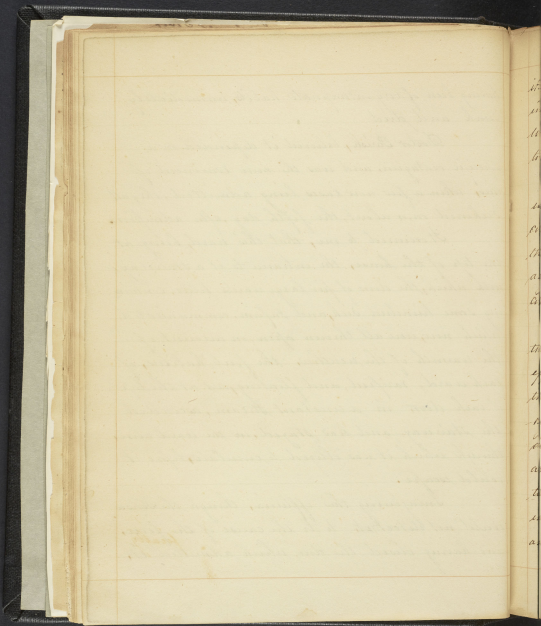


having been of very intemperate habits, immediately
sunk and died.

Doctor Parish, believed it depended on a
specific contagion, and was the more convinced of
this, when a few new cases being admitted, they all
sickened on, or about, the fifth day, after admission.

It occurred to me, that this ward, being at
the top of the house, the entrance to it a stairway,
with which, the doors of five large wards below, contain-
ing some hundred sick, and infirm, communicated,
which now, were all thrown open, on account of
the warmth of the weather, the foul habitus, of
each ward, rarified, and floating, out at the top
of each door, in a constant stream, ascended
the stairway, and was stayed, in the ward above,
through which it was obliged to circulate, before it
could escape.

Imagining this effluvia, though the senses
could not detect it, to be the cause of the fever,
and having closed the door, which, admitted it,



it, and given another direction, to the current, immediately, six more were admitted into the ward, in the midst of the sickness, none of these took sick, tho' prior to this, not one had escaped.

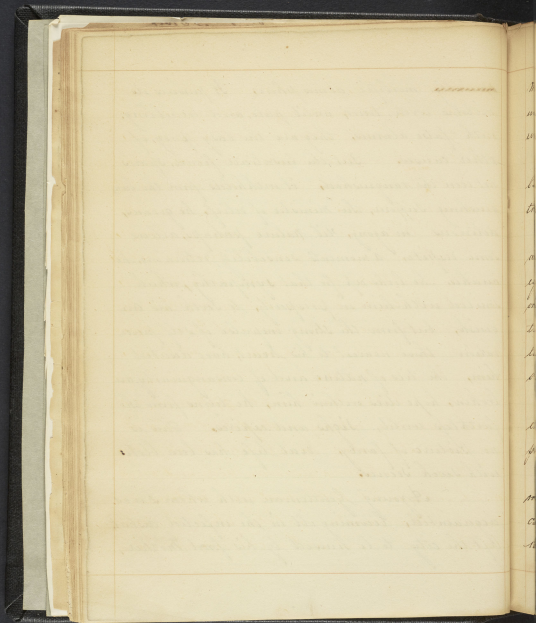
In the other part of the house, at this period, was there a similar disease, notwithstanding the constantly and unrestrained communication, between the wards. With evidence of contagion, strong as anywhere occurs, this disease proved itself not contagious.

It is rational to look for its source, to the morbid constitution, of the atmosphere, made efficient, by the particular distemperature, of the air of the place. Whilst, the antiquated, hydra of contagion, yet lingers amongst us, it deserves not lightly, to be passed by, or in defiance of the law of epidemics, it will continue to be one of the causes, of yellow fever. Dwelling in the imagination, it possesses all the bang of an infected district, subject to a specifically

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~~spinning~~, morbid atmosphere. It pursues its victims with terror, until pale, and trembling, with false alarms, they are the easy prey, of other causes. But the insatiable fiend, spares not even the vanquished, it withholds from the languishing sufferer, the minister of relief, he groans, delirious in agony, till nature perhaps, allows some respite, a moment's sensibility returning, he awakes, he looks up for that sympathy, which smiled with him in prosperity, to soothe his anguish, but from the strong impulse of self preservation those nearest to his heart, have deserted him, the ties of nature and of consanguinity are broken, hope dies within him, he turns from the faithless world, sighs, and expires. This is no picture of fancy, real life has been blest with such scenes.

A young Gentleman with whom I was acquainted, becoming ill in the infected district, left the city to be nursed by his fond Mother,



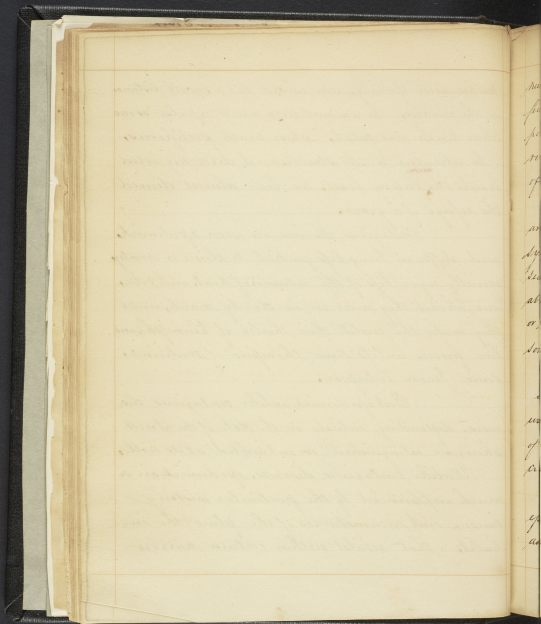
mother and family, who resided but a small distance in the country, he was met with a cold repulse as one whose touch was fatal, whose breath pestiferous,

He retreated to the stable, and did ^{more} neglected beside the ^{more} feeling beast, his body almost denied the refuge of a grave.

Contagious diseases are never epidemic, and differ in being less partial to climate or country, equally regardless of the extremes of heat and cold, once abroad, they move on in steady march, until they make the world their theatre of triumph, and live forever, unless some champion of medicine or some Jenner interposes.

But epidemic, unlike contagious diseases, depending entirely on the state of the atmosphere, are extinguished, or enkindled, at its will.

Unlike contagious diseases, epidemics are so much influenced by the particular existing causes, and circumstances of the place the inhabitants, that whilst within certain narrow



namely; limits nearly all die, at the distance of a few hundred feet the disease is quite within the power of medicine. A fact noticed by the historians of the yellow fever, and remarkably true of 1820.

Unlike what happens from contagious fevers, an attack of yellow fever, though it may afford the system of defence against its future invasions, this security is neither certain, nor permanent, examples abound in proof of this position, those inhabiting or born in yellow fever countries, & being seasoned to the poison, inhale it with impunity.

Even a few years the susceptibility is weakened, and now returning, they are equally with the stranger its victims, thus obeying the laws of ordinary, & of epidemic poisons, unlike the secreted contagia.

I am now prepared to consider the epidemic of 1820 in all the variety of its character as being specifically but one disease, divisible

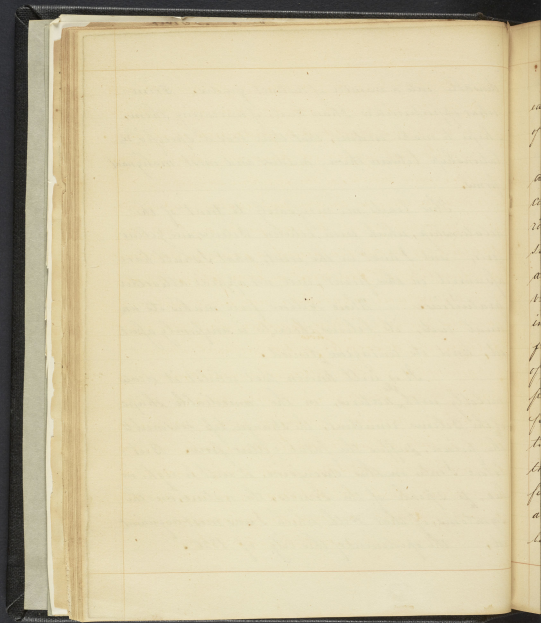
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ducible, into a number of distinct grades. From what opportunities I have had, of comparing them, I hope to make evident, that there was a specific relationship between the mildest and most malignant forms.

This leads me necessarily to treat of the relationship, which exists between Bilious, and yellow fever, and I trust in the event, what I shall have assumed on this point, will not appear altogether gratuitous. Where yellow fever makes its annual visits, its bilious character is uniformly ascertained, and its contagion denied.

It is well known that whilst it deals mildly with ^{the} natives, in the immediate shape of the Bilious remittent, the stranger, less seasoned to the poison, suffers the fatal yellow fever. But, before I enter on this discussion, it will be right in me, to speak of the sources, the nature, and the symptoms, of that with which I was most acquainted, the epidemic of this city of 1820.



Beginning by a few cases of its milder form, early in June, it was at its height in the midst of August, and ceased to be epidemic in September.

It first appeared along the narrow lanes, alleys, and courts, of the southern section of our city, where negroes chiefly congregated, whose narrow ill conditioned hovels, for the most part constructed of wood, contained a family, sometimes a plurality of families on every floor; whose tiny cellars were inhabited, and whose wretched inmates crowded thus together lead the most filthy, and discolored ^{lives}, often without change of raiment). These alleys are unpaved, and now purged by the scavenger, and into which every kind of filth, and kitchen refuse, for years collecting, beaten up into an undefinable mire, but lent from the continued moisture of the Spring, and now fermenting under the hot sun of Summer, emits a hateful, most nauseous, and disgusting, & these led thither by duty, or curiosity. I have no

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no idea however, that the degree of sensible qualities
of an exhalation, has any connexion, with its poison-
ous power, it may, or it may not, be associated with
odorous matter, Many of the most active poisons
we have, are inodorous and almost tasteless. Three
of these brought from Wilkinson's court, were the
first received into the Alms house. In these
was seen, an unfavourable prognostic of the ensue-
ing summer. These were of such a character, as
to induce M. Wilson, one of the house surgeons
prudently to call the attention of the Board of
Health, who were already observing its origin,
and with the wisest policy adapting remedies
to the causes of this disease. The cases, refer-
red to, were not examined post mortem in the house,
but subsequently coming under the notice of Dr.
Gibson upon the field, he without any knowledge
of the history of the cases, informed me afterwards,
that he suspected them to have been cases of ma-
lignant fever.

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Of this disease of the negro alleys, nearly 300 cases, were brought to the Almshouse. The whole number of whites included, did not exceed the average of deaths, which was about 25 to the hundred. Though a number of these cases, originated in labourers employed upon the wharves and others residing within, or having visited the infected districts, the distinction of character between them, and the malignant form which they developed itself, was for the most part, upon close inspection clear and undeniably whatever alliance may have existed between them.

I was frequently visited during the prevalence of this endemic, by a professional gentleman, and correct observer of facts, who has seen much of the yellow fever of New Orleans, where ^{he} has been engaged in practice, and made many post mortem examinations.

Having seen the disease of the Sugar

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Sugar house, and assisted in a number of dissections, he assured me of his entire conviction, of the specific identity, of the two, and that disease, having as few of the characteristics of yellow fever as in New Orleans, arranged under the same denomination of fevers.

I shall present my own view of its nature & pathology, derived from a careful observation, of its phenomena in the living, and elucidated by the scalpel. It becomes me first to speak of the symptoms, and first, of
The premonitory symptoms.

These present to the curious, an interesting theme for speculation, but more from their intrinsic importance, demand our consideration. Were the knowledge which we conceive to be attainable on this subject, fully impressed on the medical mind, it might do much, to arrest the march of death, especially to curtail the dominion of epidemics.

Amongst the phenomena that announced the approach of this disease the —

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the following are the most peculiar, and most worthy
of collection, immediately preceding those sensations
which declare him ill, the patient is remarked
to have a flow of spirits, surpassing his habit, a
convivial, unexpressed feeling, mingles in his actions,
and breaks out in the strongest expressions, giving a
new and peculiar animation to his countenance,
but no alarming apprehension is excited in the patient,
or those about him, commonly it carries a face so decep-
tive, that he feels, and all regard it, as the comple-
tion of health, charmed with existence, as if he new
just began to be, he revels in that security which
dreams of no danger, but the more overwhelming is
the tempest that follows, when the elysian spell
is broken, an intoxication succeeds, which is more
closely allied to that from poisons, which soon sinks
into languor of body and mind, and disposes
to sleep, from which he is aroused by chills,
severe pains in the head, and back, stiffness of
the joints, the eye is red, suffused, and sometimes

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Sometimes, protruded, the skin is hot, dry, and harsh, there is great restlessness, and anxiety about the praecordia, the stomach soon gives way, and copious vomiting then comes on. Thus introduced it runs its devious course.

The expression of countenance conforming to the morbid hilarity described, was at this time equally striking, and peculiar, and having once taken possession of the mind, it is like the voice of an intimate friend, which cannot possibly be described, though immediately recognised.

Considering health as a unit, disease may consist of an infinite variety of impressions, and derangements of function.

The preliminary signs of disease, also, far from conforming to any uniform plan, may consist in any disturbance of ^{the} equilibrium of healthy action.

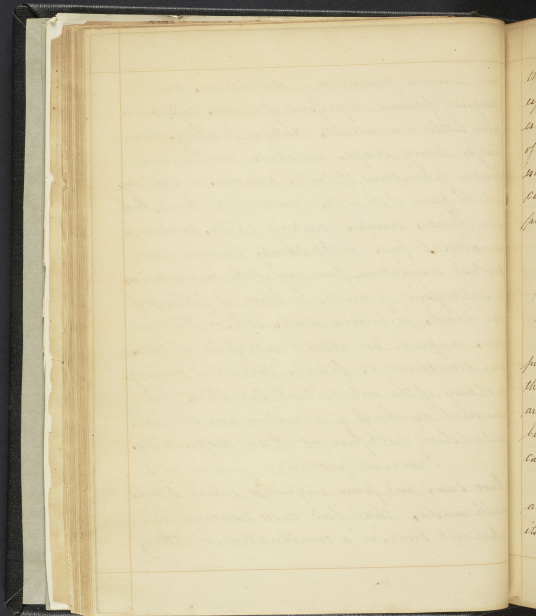
Next to the pleasurable excitement of mind of animal power and appetite the most

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most common precursors of this disease, were
languor of mind, depression of spirits, lassitude
from little or no exercise, vertigo, fainting, drowsi-
ness, heavy sleeps, incubus, morbid vigi-
lance, perversion of taste, nausea, or vomiting,
a dull pain of the side, pains of the head, back,
and limbs, cramps, creeping chills, coldness
unnatural fevers, night sweats, sudden and
profuse evacuations, from any of the excretories,
a suppression of urine, a sense of fullness of
the head, a yellow, dusky, red, or stary
eye, weeping, an altered expression of the eye
and countenance, fatuity, failure of memory,
or of any of the intellectual faculties, an
unusual quickness of perception and thought,
a sudolent development of new dispositions.

I am quite persuaded from what I
have seen, and from inquiries which I habit-
ually made, that few cases commenced
without some, or a combination, of the



the precursory symptoms described, but more especially with a morbid, and pleasurable excitement, and with a characteristic expression of countenance, which whilst it necessarily escapes common observation, may easily be perceived by the eye, that is familiar with the peculiarities of morbid excitement.

"Amid the heavens

Fabely serene, deep in a cloudy speck
Compos'd, the mighty tempest brooding dwells,
Of no regard, save to the skilful eye?" *Thomson.*

What fact can be more interesting, or practically important, yet, in the history of fever, this phenomena has hardly been noticed, and few are aware that it ever occurs, its nature seems buried in the obscurity of physiological conjecture, *causa latet, vis est, notissima.*

But may we not imagine a peculiar poison, admitted into the system, and about to develop its action, the vis conservatrix takes the alarm,

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alarm, and exciting to the maximum, all the moving powers of life, an effort is made to eliminate the poison, or to arrest, and subvert the morbid tendency.

The system, like an elastic bow, rebounds with a force corresponding to that with which it was bent, but when its cords are drawn too tightly, its cohesion separates, and it ceases to react. Be this as it may, every action of the moving machine is quickened; circulation, secretion, sensation, heat, sensorial and mechanical powers, are all increased, and whilst a balance is preserved in these actions, the sensation is highly pleasurable.

De Cain, the celebrated tragedian, about to enter on the stage, on a certain occasion, observed that he felt an unaccountable exaltation of mind, and accession of animal strength, and, settled in the confidence of certain success.

Such indeed was the effect that the audi-

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audience though long accustomed to admire him, were astonished, as if some new prodigy had suddenly ^{appeared}, he entirely surpassed himself, but the rich melody of applause, had not ceased to vibrate on his ear, when he became suddenly ill, and in four days was a corpse.

Dator Hovack in his notes on Thomas' practice, edition 1825, Article Croup, has these remarkable words. "In the forming stage of croup, the child sits laughing and playing upon the lap of its mother, manifesting a very unusual but morbid degree of animation" I cannot forget in the case of a child that was dear to me having observed a playfulness, and exhilaration of spirits, above her habits, on the evening preceding the fatal night, on which she died of croup.

Considering the high practical importance of an early prognosis, and of ~~monitory~~ ^{monitory} symptoms, especially during the reign of epidemics.

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I shall introduce two cases, which first called my attention to the subject, and made an impression never to be forgotten.

A young woman, about 24 years of age, having recovered from an unimportant surgical disease, was engaged for a time, as an assistant nurse, whilst presiding in the ward. She came to me, expressing a desire to be discharged.

I was then astonished at the peculiar beauty, which lighted up her countenance, and the exhilaration of her spirits, her eye was most remarkably, there seemed to be an acuteness of intellect, and capacity of mind new to her, with the liveliest sensibility she thanked me for her health, and repeatedly declared, she had never in her life felt so well. I perceived her manner had something singularly sympathetic in it, all with whom she spoke, seemed immediately to participate in her inspiration, her pulse beat 100, and was natural in,

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in volume, and force, not from the gaiety of her manner, but from the peculiar expression of countenance, I imagined this to be a case of morbid hilarity, which I had known in two or three instances, to precede an attack of fever. I pointed out this case, and my convictions with regard to it, to one of the gentlemen of the house, but found him incredulous, attributing it to common causes, or possibly to a slight intoxication, from which I thought it clearly distinguishable.

Without alarming her, I recommended her to tarry a day or two longer. It was now eight in the morning, I saw her again at eleven, already a great change had occurred, she was languid, was reclining upon the bed, and seemed abstracted, with an expression of anxiety, startled when spoken to, paused a moment, and then replied in a quick, and incoherent manner, pulse slow, and hardly perceptible, her eye was watery, as if from weeping. In the afternoon she became quite

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quite delirious, talked incoherently, but made
no complaints. At eleven at night Lewis sent for
suddenly her breathing had become short, and
labourious, she had a severe pain across the fore-
head, her eye seemed to start from the socket
pulse more full, but slow, irregular, and yielding,
a coldness pervaded the surface, of her body. Sensible
of a great inward struggle, she inquired frequently
whether we thought she was dying, and seemed
more terrified with the horrors of death, than a
malefactor at the stake. In about half an hour,
she had a spell of vomiting, and then obtained
relief. She soon again became exceedingly restless,
and was so all night, about ten next morning,
whilst Lewis present, immediately after another vio-
lent paroxysm of vomiting, her eye became sud-
denly fixed, the pupil dilated, and she fell dead
instantly. The stomach was found highly
inflamed, but contained no black vomit, the
vessels of the pia mater and of the brain were,

was found highly injected with blood.

But a few days after this the same morbid hilarity, arrested my attention, in a healthy young black woman. With the force of the striking example before me, I was alarmed, on examining her pulse, it was almost absent, she was put to bed, when it immediately rose, but was still heaving, and slow. A cathartic was administered, and she was carefully watched; in the middle of the day, she was observed to fall asleep, and about three in the afternoon, to complain of rigours, and head ache; which having subsided, she became more talkative, and delirious. She became evidently very ill; tho' she presented no very positive symptoms, her skin was never harsh, or above the natural temperature, on her countenance there was a feeble smile, or risus sardonius, the region of her stomach was somewhat tender when pressed upon. About the third day, the skin had a peculiar cadaverous feel, and was

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was torpid, she had a hicough, and made frequent unsuccessful efforts to vomit, she died on the night of the third day. her stomach was found to be inflamed, containing a dark coffee ground matter.

From the entire absence of complaints, and external evidence of disease, she was hardly perceived to be ill, by those around her until the third day, when very great prostration of power occurred.

In other cases less striking, and less fatal, I have witnessed the same preliminary signs in which I have never been deceived they consisted often in the mere expression of countenance, without any effect on the manner of the person.

I come now to speak of the more remarkable symptoms, and phenomena, which exhibit the general character of the disease.

The morbid hilarity, of which I have spe

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Speech, was succeeded by a corresponding depression of spirits, to which succeed lassitude, vertigo, sometimes syncope, drowsiness, rigour, pain in the head, very severe across the forehead, extending down the spine; and often to the extremities &c.

The eye had at all times a peculiar expression, was suffused, red, protruded, often more widely open than natural, frequently open in sleep, the vessels of the tunica conjunctiva were in a few instances highly injected with blood, the early redness of the eye, changed to a muddy, and frequently to a deep yellow. I have seen the cornea depressed, and irregular, as if from absorption of the aqueous humour. In a few fatal cases the eye was bright to the last, and only changed in expression. When the pupil became dilated, and the eye suddenly fixed, death always followed in a few minutes.

The Tongue was early covered with a white fur, changing to brown, and finally to

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to black, and thickly studded over, or a thick brown ridge of fur, collected along the centre only, or perfectly clean, and, natural, in some of the worst cases, or a delicate white fur, disappearing and renewed, every few hours, occurred in three instances (Two of these died), or rough, hard, dry, corticated, to the feel, and insensible, or glazed, dry, and excessively hot, or tremulous, or contracted, diminished in bulk, or paralyzed, and immovable, or together with the teeth, and gums, loaded with a black offensive sorde.

The sense of taste, was sometimes obtunded, or absent.

Chills occasionally announced the onset, particularly of milder cases, in rare instances they were repeated, they aided much in forming a prognosis of the event, where sensation was so much obtunded from the first, that chills did not form, much was to be apprehended.

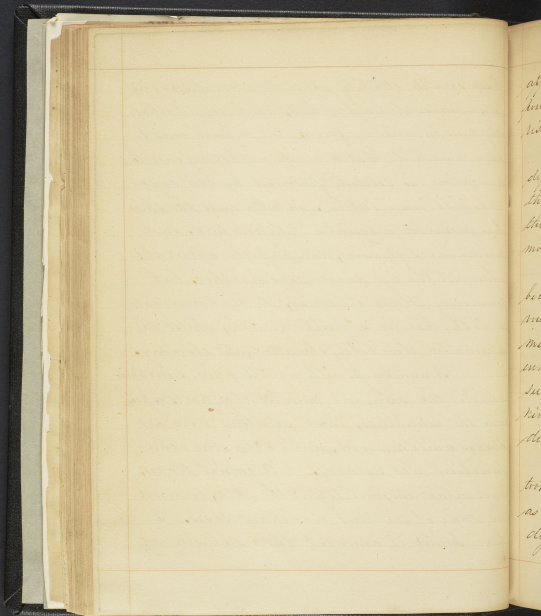
The skin presented great varieties, I have

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have seen it steadily above the natural standard for an unusual length of time, much beyond what happens in ordinary fevers, but in such cases I have remarked that a remission having once taken place is seldom followed by this sign of febrile exacerbation. in other cases the skin has preserved a equable temperature, and remaining soft, moist, and perfectly natural, when, not the less danger, was manifest, but commonly it was otherwise, the head or breast, or both, having a febrile warmth, whilst the extremities were cold, shivelled, and clammy.

Numbness, with a dull pain sometimes affected the skin, and muscles of a part, especially the extremities, these symptoms were not always quite removed, until after every other function was restored. A general torpor, and entire insensibility of the skin, occurred in some of the most malignant cases. I have known it amongst those delusive ap-

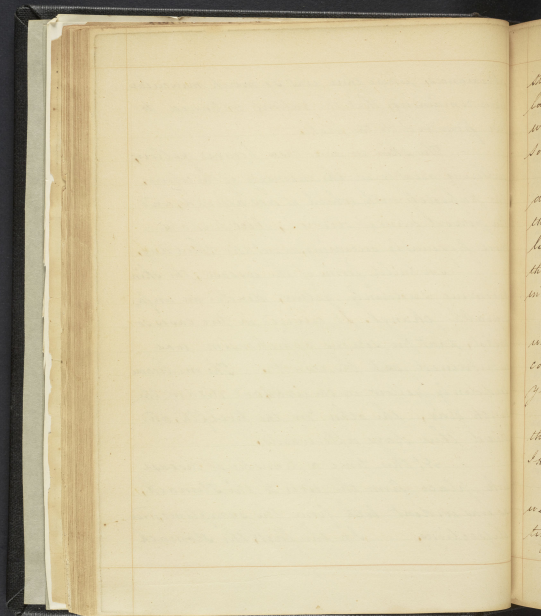


appearances, where there was so much muscular
fibre remaining, that the patient continued to
rise from bed to the last.

The skin in most cases became yellow,
differing greatly in the intensity of the colour,
the rapidity with which it was affected, and
the period when it occurred, but perhaps
more frequently occurring, about the third day,

In mild forms of the disease, the skin
becoming suddenly yellow, denoted an unfavourable
change. It occurred in two cases so
mild, that no serious apprehension was
entertained, as to the result. The one became
suddenly yellow on the eighth and died on the
ninth day, the other on the twelfth, and
died three days afterwards.

At this time a transfer of disease
took place from the liver to the stomach,
as was evident both from the symptoms, and
dissections. In the first, the stomach



Stomach was found highly inflamed, singularly corrugated, and contracted, and filled with black vomit. The other was also somewhat inflamed.

When not yellow, the skin was often of a dusky, leaden hue, or bronze, or shining, or on the forehead only, was seen a shining metallic lustre, with a mahogany disc in the neck, and those becoming yellow, the change was first seen in the neck.

The serum discharged from the blisters, was frequently yellow as saffron, the urine was coloured, and the perspiration would give a yellow tinge, to a white sheet, or handkerchief.

It pervaded the fat, the cellular tissue, the periosteum, and even in the ventricles of the brain, I have seen water of the brightest yellow.

The feces, often considerable in quantity, were mostly of a dark brown, or black, or tinged with bile, or clayey, or were occasionally of

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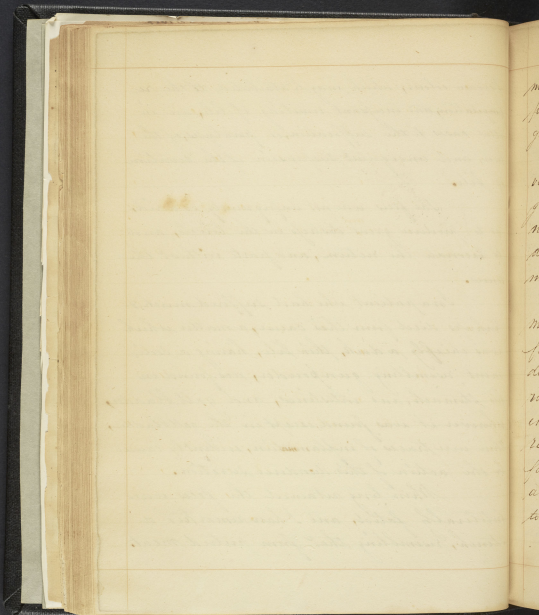
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of cream colour, which may be attributed to the regurgitation, and incessant vomiting of bile, and in other cases to the suffocation, or paralysis, of the liver, and consequent suspension of the secretion of bile.

The feces were not unfrequently so acrid, as to produce great distress in the bowels, and to excoriate the rectum, and parts without the anus.

In a patient who had suffered much, & perhaps died from this cause, a matter which was chiefly a dark, thin bile, having a sediment resembling gunpowder, was found in his stomach, and intestines, and gall bladder, wherever it was found, except in the gall bladder, there were traces of inflammation, evidently caused by the action of this disordered secretion.

When long retained the feces were intolerably fætid, and I have remarked a stench, resembling that from putrid meat.



meat, I fancied it to proceed from a partial putrefaction, taking place of digestion, the digestive process being altogether suspended, Costiveness in the early stage, was a prevailing symptom, and when very unyielding, gave an unfavourable prognosis, but this was not uniform, there ^{were} cases which commenced with a Diarrhoea, and even with tormina tenesmus, and bloody stools.

In one of these, a middle-aged black man, this symptom was changed to the gastric form of the fever, for some days his life was despaired of, at length he seemed to recover, and rose from his bed, when there came a great discharge, of dark, thin, flaky matter, by stool, resembling the black vomit, after which he pained, and expired. His stomach, with a mere blush of inflammation, was found to contain a similar matter.

Spontaneous Bilious Diarrhoea.

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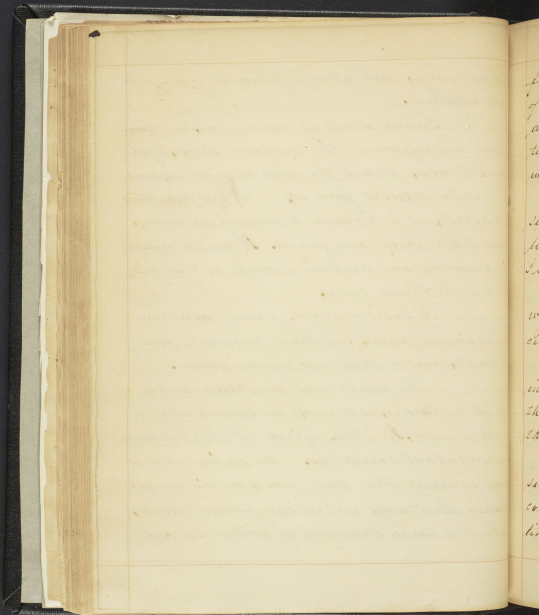
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supervening, was always followed by a speedy convalescence.

Bilious vomiting ushered in, and sometimes accompanied the successive stages, of the milder cases, though the more malignant were altogether exempt from it. It was sometimes so acrid, as to produce a burning, and soreness of the throat and fauces. It varied much in quantity, and has been so dark as to be mistaken for black vomit.

A Bilious vomit, coming on at an advanced period, in cases previously free from it, was a most auspicious omen.

The urine was most remarkable for its deficiency, especially in cases threatened with danger. In other respects it observed many unimportant variations. In one instance it was believed that there was none discharged during three days when the patient died, about a large spoonful of yellow serum



fluid, was found in the bladder, the coats of this viscus were thickened, corrugated, and inflamed. Excepting a deep injection of the vessels of the pia mater, there was discovered no other evidence of disease.

A total want of urine, may be considered amongst the very worst symptoms. but, not less so was *stillecium*. Urine which I believe occurred only in fatal cases.

A very free evacuation, in the natural way, of urine, was at the same time auspicious, or favorable.

Fainting, which introduced the disease in some instances, was more common to the first, than to the future stages, to the first, than to the future bleedings.

A Peculiar Squinting, with a convulsive protrusion of the tongue, occurred in two coloured females, it was paroxysmal, continuing perhaps five minutes at a time. un-

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increasingly. It was excited by any sudden noise,
or the of the bed cloths, or an effort to speak, it
was accompanied by some delirium, great ner-
vous instability, and anxiety of mind, with
some constriction of the chest, a hurried and
difficult breathing, and a pulse frequent &
irregular, it gave to the countenance a most
ghastly aspect, ——— that could not be
beheld without emotion. It yielded entirely
to the loss of blood, which was general, and topical.

Muscular power, often showed a strange
want of correspondence with other symptoms, and
with itself. In some the most extreme prostra-
tion, almost amounting to paralysis, occurred,
whilst others were much less affected, and
some rose constantly from their beds, with
a countenance flaccid, and collapsed, the
skin cold, the pulse almost imperceptible,
disturbed by a delusive imagination and
pursuing its object, persisted obstinately all

all medical authority. Thus dying upon
their feet, they could not be persuaded they were
ill, ^{and were} sometimes so strong, and maniacal, that
they could only be governed by the straight
jacket).

A young female who had been six months
confined in the cells, under treatment for mania,
was there attacked with a mild form of
the same character as that of the prevailing dis-
ease, she became immediately rational, recov-
ered in about twelve days, and was dis-
charged sane.

A young coloured woman, in the
surgical department of the infirmary, having
a deep, painful, phagedenic ulcer, on the
thigh, which was not benefited by any treat-
ment, but continued to enlarge for three months,
she became suddenly maniacal, attempted
acts of violence, and shrieked furiously, to
the great annoyance of the other patients,

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she was committed to the cells, where by an appropriate treatment, her mania left her in about three days, but was succeeded by tenderness of the epigastrium great prostration, and the more prominent symptoms of ^{the} prevailing fever, her eye was changed from a red, to a dusky yellow, the discharge from the eye, was also yellow, her tongue, and teeth, loaded with a black incrustation, she was dangerously low for about ten days, meantime her ulcer healed rapidly, and was with her fever perfectly cured in less than five weeks.

Mania also occurred during convalescence in five several cases it came on always at night, was not attended by fever, and yielded very kindly to treatment, as bleeding, an emetic, purging, cupping the head, blistering the back of the neck, and the extremities. Three days in a case of the most turbulent character, and its longest duration, it was twice miti-

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ly too early in indulgence in animal food, once
by a draught of port, & in other instances,
suspect it was owing to an error of diet.

A lad twelve years of age, in a fit of
mania sprang from ^{the} and was caught in the
act of leaping from the second story window
he was immediately annulled when a stream of
dark matter issued from his mouth and he
fell dead.

Petechia, were not common, and only occur-
ed when there had been a neglect of early treatment
they appeared in small, numerous dark blotches,
chiefly on the arms, and breast.

A species of rash, that produced much
itching, and was very evanescent, occurred in a
few cases, and only in females, who had taken
sick at a particular period. It gave great relief
to the irritability of the stomach, when it disap-
peared the vomiting was renewed.

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where there had been neither chills, nor pains,
with a slow depressed pulse, vomiting, and
cold sweats, portended great danger.

Subsultus tendinarius, so common
in Typhus, rarely occurred here. There were
however sometimes tremours, and great nervous
agitation, which has run into convulsions. I
have once seen painful, tetanic constriction, of
the muscles of the back of the neck, and of the
spine, by which the head was thrown violently
back, whenever the patient was disturbed.

Respiration was rarely affected, sometimes
it was hurried, and oppressed, or deep sighs
were uttered. Throwing back the head, and
shoulders, forcibly to expand the chest, was
always a fatal symptom. The heavy stator
of typhus, which sometimes resembles that
accompanying mechanical injuries inflicted
on the brain, occurred in but two or three
cases, except immediately preceding death.

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Hicough was amongst the unfavourable symptoms, it was often very distressing to the patient, but many recovered from it, and in one instance after it had continued three days

the symptoms were more certainly fatal, than to see the patient, tossing his arms, rolling his head, drawing up his legs, slipping constantly to the foot of the bed, and rolling off of it, with occasional sighs, and groans, as if from extreme bodily wretchedness.

The throat was in some instances so sore, as to render deglutition difficult, and painful. The one most troubled with this symptom, complained much of a tenacious frothy secretion, which interfered sometimes with his respiration, he feared so much to swallow, on account of the pain it gave him, and the seeming danger of suffocation, that he would rather endure the most intolerable thirst, than make an effort to swallow.

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On being persuaded to take some tea,
he had like to have suffocated in the attempt,
he was thrown back upon his bed, with violent
spasms. In the ardour of his thirst, he seemed
to look with extreme anxiety at the cup, but
when it was presented, he recoiled from it, and
being somewhat delirious, could not be persuaded
to taste again, saying it would murder him,
he died the following night.

The absence of natural modesty, indi-
cated by exposure of the body with indifference,
was, amongst the bad signs.

Hæmorrhages from the nose, except
they occurred early were amongst the fatal sym-
ptoms. Less frequently occurring though more
fatal when from the gums, or the ears. The
gums and lips were sometimes excoriated, yielding
a bloody, offensive sanies. In some few instan-
ces, hæmorrhages occurred from blistered surfaces,
from the bowels, and from the uterus.

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Black vomit, occurred in those under my
care but in ten, or twelve, instances, differing
remarkably in this respect, from the fever which
in other locations, was attended in so many of
its fatal cases, with black vomit. Though, there
was a manifest tendency to it, in many cases, as
I judged from the appearance of a vomit having
a greyish, fleshy sediment, which sometimes ap-
proached a chocolate brown, it was often the
forerunner of black vomit, and differed from it in
little else than colour; like that secretion it was
varied by admixtures with the common contents
of the stomach, and sometimes with blood, and
frequently a glaucous, tenacious, mucous, resem-
bling that from other morbid conditions of the
stomach, especially from mania pota, it
was rarely mixed with bile though I have
seen bile so black at the first efforts to vomit

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at a stage so early, the stomach could not have taken in the condition essential to the formation of black vomit.

In the case of a middle aged, mulatto, there was a gastritis suddenly induced by drinking cold water, he was admitted amongst the fever patients, from which he had no symptom different, ~~different~~ except more than usual tenderness of the abdomen, on account of which he could not endure any change of position.

There was a entire prostration of strength, and for the space of one week, his life was in extreme jeopardy. At one time a fleshy coffee ground matter hardly darker than a chocolate brown, having streaks of mucus, floating through it, was thrown up. I thought it unequivocally black vomit. The patient notwithstanding recovered.

A complete remission of symptoms sometimes occurred, but was always a fearful one.

Faint, illegible handwriting in cursive script, likely a letter or manuscript page. The text is written in dark ink on aged, slightly discolored paper. The handwriting is dense and fills most of the page, with some lines appearing more distinct than others. The overall impression is that of a historical document, possibly a personal letter or a draft of a formal communication.

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In one instance it was so remarkable, that the patient imagining himself well, slipped out unperceived, and walked a number of squares to his home, where upon perceiving some headache, he immediately returned, a change was soon apparent. on the second day he died.

Morbid vigilance was a pretty common trait, in this disease, tho. the reverse in a few instances obtained. In one the entire absence of sleep. for seven days, (the whole term of his illness) the peculiar expression of countenance, and when pressed upon, a tenderness of the epigastrium, formed the only determinate symptoms.

His spirits were good, his thought but little impaired, he was never heard to complain, thus he remained, and there was so little change perceptible, that his being under medical treatment, was a mystery to his nurses, until the fifth day, when that was evidently

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a general sinking of the powers, his countenance becoming haggard, his eye retiring within its socket, his pulse weak, and his gait tottering. But still he arose from his bed, whom he would now remain long, he would at no time acknowledge himself ill, and daily repeated the request to be discharged.

With the greatest simplicity he would cheer, and jest the sick around him. on the seventh day upon entering his room, I found him reclining upon his bed, he instantly arose, and with a smile bade me good morning, and desired with some earnestness to be discharged; but whilst speaking, his voice faltered, I saw his countenance change, his eye became fixed, and he fell instantly dead.

Many are the scenes which touch the sympathies of a physicians heart, but at no time is he more sensitive than when

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when he sees a fellow being, gliding swiftly
unconscious into his grave, while his friends around
him are equally unconscious of his danger.

In a disease like the present where the
countenance is to the inexperienced so deceptive,
yet to the eye of an observing physician, so
faithful an index, the importance of study-
ing it well, cannot be too strongly inculcated.

It is by patient watching at the bed-
side only, that that intimacy with the
physiognomy, can be acquired, which dis-
tinguishes the eye of a discriminating phy-
sician.

Associated with different degrees of
danger, the countenance was seen calm and
serene, or listless, or vacant, looking as if
without seeing, or gazing carelessly upon space
with the perpetual smile, and unconscious-
ness of idocy, or with the simplicity of a
child, diverted with the glitter of a feather.

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his perverted imagination, or imapt with
the pleasing hallucinations of fancy, or
distorted with fear at the horrid specter
his imagination has conjured up, or
silently weeping, with an expression of
grief, or gazing with an indeterminate
suspicion, on those around him, repeat-
edly enquiring who are those he should
not know, what they desire, or with what
motives they do things observed by him, or a
malignant, sear'd, mantled ~~the mantled~~
the brow, or the fixed sullenness of despair,
or the gay volubility, with which the natu-
rally taciturn sometimes surprise us.

thus marked the variety of mania which
arise amongst the most conclusive symptoms.

The stomach from the first al-
ways shewed some signs of distress, was af-
flicted with a burning, and a gnawing sen-

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sensation, was very irritable, and threw
up its contents. at first frequently of a
bilious character, but ceasing to be so as
tenderness, or inflammation appeared in
the stomach.

Tenderness of ^{the} epigastrium, the most
uniform symptom, in cases of the higher grades
was occasionally absent, and did not appear to be
a necessary accompaniment, to the gastric dis-
ease, for dissection has shown the stomach
highly inflamed, and containing black
vomits, when there had been no sign of ten-
derness.

The pulse was generally full, and
frequent, having some force but was occa-
sionally faltering, and oppressed from the
start, it had however no marked aberrations
in the progress of disease, but as the case
may be, presented all the varieties, which any
when occurred, but there were three conditions,

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of the pulse, which so far as I have observed,
marked equal degrees of danger, first the
gaseous, or soap bubble pulse, by its volume,
and activity, counterfeiting great force, though
almost effluated by a breath of air.

Secondly, the pulse thought to impart
the sensation of a shattered quill, the artery
seems to have collapsed, fallen in to folds,
through which the blood seems to flow, as
if through a bundle of tubes, this pulse
was as compressible as the gaseous, and but
twice occurred in fatal cases.

Thirdly the pulse hardly percept-
ible, or quite absent from the wrist, whilst
the heart, the carotids, and even the tem-
poral arteries beat strongly.

Many times the pulse was absent
from the wrists, many hours before death,
and I have known the pulse to be absent
from the wrist, whilst the patient was in

the first, which is a very common
mistake, and is often made by
beginners. It is to write the
first letter of a word too large,
and to make it too prominent.
This is a fault which is easily
corrected, and which is of great
importance in the appearance of
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of great importance in the
appearance of the writing, and
which is often made by beginners.

the first, which is a very common
mistake, and is often made by
beginners. It is to write the
first letter of a word too large,
and to make it too prominent.
This is a fault which is easily
corrected, and which is of great
importance in the appearance of
the writing. It is a fault which
is often made by beginners, and
which is easily corrected. It is
of great importance in the
appearance of the writing, and
which is often made by beginners.

in the full possession of every other faculty,
and sense, except memory, whose operations
ceased to act altogether, it occurred again
in a black woman, not long after she was
quite recovered from the obstetric department,
and before she was apprised by any minister
of her danger, her peculiar countenance
having led me to make the examination,
for at this time her mind and manner exhibit
an idiotic gaiety, she was persuaded to get to
bed and though no argument was made
use of she made no opposition when in
bed, her pulse immediately rose, but was
slow, hollow, and irregular, again
on the evening of the third day, the pulse
was gone, she died before morning.

The pulse was said by some practition-
ers to be deceptive, and to merit no consideration
in the treatment. I am notwithstanding
most confident, that the physician who is

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is sufficiently observant of the various associations, which attend the several conditions of the pulse, and marks the influences of the treatment, cannot go wrong at its suggestions.

In such judicious diseases, there may be no guide so infallible, as at all times unaided, to determine the mind of the physician, he acts on the collected evidence of the case, yet in time of danger, the pulse is never to be approached but with deep solicitude. Distrustful or ignorant of the pulse, however, and the energies of the physician paralyzed, his knowledge from one entrance quite shut out, that ineffable look, which regards him as the last, the only hope, darkens in despair at his cruel inactivity, and inaction.

Disease may sometimes so smother the perceptions, and look through the system in such insidious guise, that the subject is not sensible of harm, when most threatened with

with danger. But the Physician, if an acute observer, and familiar with the expression of diseases, will detect that in the countenance, and intellectual movements, which wear the perceptions of all others. These striking symptoms were to a certain extent, characteristic of this disease.

The evidences of critical periods, multiplying, as the disease advanced, compelled me, (once prejudiced to the contrary) to acknowledge their influence. These clearly marked were the third, fifth, seventh, and ninth days to which I am constrained by irresistible evidence, to add the first 24 hours. It was very remarkable, that, whilst many deaths occurred on the third day, not only in the public infirmary, but in the private practice of the city, and some on or about the expiration of the first 24 hours, I heard of none occurring at any intervening period. There was very evidently a disposition to a solution of the fever, at the ephemeral period, which, with the

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the cooperation of an appropriate treatment, brought many cases ominous in their origin, to an early crisis, and destroyed them in the germ.

In obedience to this law, many cases spent their force, and spontaneously subsided, having but the presence of day.

Content to submit these views to the test of a more enlarged experience, I shall not urge them by any tedious details, though I should certainly be slow to surrender the ground, which is maintained by the lights of analogy, and my own experience.

It is cases from which similar deductions may be drawn, are constantly occurring, I should have been less tenacious of this point, but that there are those not wanting in reputation, who believe the precise duration of all fevers to be defined by their ^{own} specific nature, from their origin. Such an opinion, has given sanction to delays, fatal as those which refuse to extinguish the kindling

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flames, until the masterly element, could defy
all human skill.

Properly defined, what was the disease
of which we are treating? On this point, there
existed a great diversity of opinion. Manifesting
great differences of force ^{now} for the present be-
considered, a highly inflammatory, bilious
fever. in some instances putting on symptoms
common to Typhus, in other, imitating the malig-
nant yellow fever. But to this question, I shall
presently reply more at large.

Doctor Rush during his ^{entire} life strenuous-
ly maintained, that the yellow fever, is but
an aggravated form of bilious fever.

Doctor Physick, on the contrary, has
from my numerous dissections concluded,
that the yellow fever is located in the stomach,

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and much experience, has since contributed to prove his position just.

As this is a point on which there is yet some hesitating, I will offer for consideration what has occurred to me, at the bed side, bringing with it the evidence of dissections.

Each organ has its own appropriate function, its own appropriate stimulus, and its peculiar susceptibility to the action of particular medicines. But whilst particular medicines, on this account, constantly tend to a sameness of effect, there are circumstances, at all times occurring, to modify that effect. The same obtains in the action of morbid poisons, hence it is that the same poison, produces in one instance the distinct, in the other the confluent small pox. We have a remarkable illustration of this fact, in the scarlet fever, however unlike its different forms may be in symptoms, general character, location, and

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degree of danger, all its varieties, originate
in the same specific poison, and when properly
distinguished into classes, as the scarla-
tina simplex, the anginosa, and the maligna,
all now acknowledged to be the same specific
disease.

That diversity of effects, cannot result
cannot result from identity of cause, is most certain.

But here we have in view, one great cause,
modified in its action, by a variety of circumstances
more or less obvious. We know the quantity of
poison taken, the mode of administering it, &
the the particular circumstances of the person, at
the time of taking it: all give variety to the effect.
Thus the digitalis may prove an immediate poi-
son, or may exert a gentle, or salutary influence
on the system, or may slowly, unperceived accu-
mulate its force, and after a time, surprise by
sudden and alarming consequences. Salomel
as may be the quantity taken, or the mode of

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of administering it, may act only on the prima-
ria, or may pass on until purified by the sali-
vary organs, they are stimulated to a powerful
and peculiar action, or without observing any
local attachment, may signalise its presence by
powerfully subverting morbid actions, going on
in the system.

This view premised, there is less diffi-
culty, in comprehending the causes, of all that
variety of form, presented in the epidemic of 1820.

Like mercury, when slowly introduced
into the system, the morbidic miasm, acts in
that organ, which is particularly sensible of
its presence, whilst the one acts on the salivary
organs, the other acts on the liver, and thus is
produced a Bilious fever. But when presented
in a more uncentrated form we find the stom-
ach participates in the effect, Thus, mercury,
may salivate though it purges, the putrid miasm,
may act simultaneously, on the liver

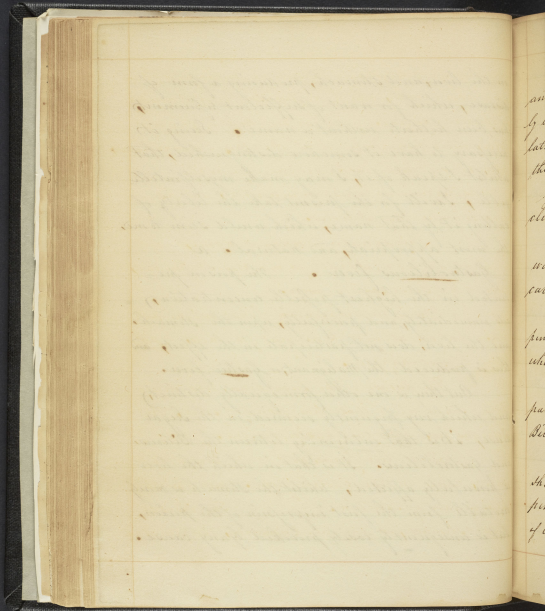
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on the liver, and stomach, producing a form of disease, which for want of sufficient refinement, has been hitherto without a name. Seeing it necessary to have it somehow distinguished, that whilst I speak of it, I may make myself intelligible, I will for the present take the liberty of calling it by that name, which would seem to me, the most appropriate, and natural. a

Gastrobiliary fever. The poison presented in the highest possible concentration, acts immediately, and powerfully, upon the stomach, and the liver, does not participate in the effect, and thus is produced, the Malignant, or Gastric fever.

But there is one other form equally distinct, and which very frequently occurred in the Sugar-house, it is that intervening between the Biliary, and Gastrobiliary. It is that in which the liver is powerfully affected, whilst the stomach is merely irritated from the first impression of the poison, but is consequently easily provoked by any cause.



Hence it is greatly destroyed by the purgative,
and acid bile, which a diseased liver is constant-
ly throwing into it. This provoked it sooner or
later, more commonly about the third day in flames,
thus it is clearly distinguished from the
Gastrobilious just mentioned, and as
clearly from the Bilious.

This equally deserves a name, and
without apology, I shall for my present purposes
call it a Bilio-gastric fever.

This is not imagining what might hap-
pen, but an attempt to account for facts, for
what I does happen.

The disease of the Sugar-house, was princi-
pally made up of those two forms of fever, the
Bilio-gastric, and the Gastrobilious.

These two forms, as I shall presently
show, result in the Gastric form. how this hap-
pens is easy of solution. The disease
of the Stomach, in the one, primarily, in the other

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secondarily induced, by their greater force, their
counter impression, relieve the liver, upon a prin-
ciple which all must recognize. Just as a blister
would relieve a pleurisy. But the disease
secondarily gastric, is a less virulent disease
than that which from a greater force in the first
cause, was originally located in the stomach.

Thus we have four diseases, the product
of the same poison, in grade equidistant from
each other, the highest and lowest grades scarcely
separate, that not even the outline of the features
of the one, is retained in the other. No trace
of family resemblance; can be recognised between
them.

Though each class, is thus distinguished
by its peculiar symptoms, and demands a peculiar
treatment. They are so clearly linked together
by the order of nature, that scientific harmony
also requires, that they shall be arranged under
one great head, in the following order.

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Bilious fever.

Bilio-gastric fever.

Gastro-bilious fever.

Gastric fever.

Of the diagnosis, and treatment, proper to each class, and first of the

Bilious fever.

This, was an open and developed fever, was introduced by languor, chills, pains in the head, and back &c. the face was flushed, the mind bewildered, the pulse ~~was~~ full, and strong, and frequent, the tongue was covered with a white fur, the skin was hot, dry, and harsh.

Tenderness of the epigastrium which was pathognomonic of the other forms, did not occur here in any instance, the stomach soon sickened, and was relieved by copious vomiting of bile, but was less irritable than in the other forms.

Differing from the other diseases, bile was occasionally ejected from the stomach

at all periods of this disease.

Though ridiculous, and capable of being cut short by a proper effort, in the early stage. yet there was danger in neglecting the mildest form. I have seen two cases in which no serious apprehension was entertained, suddenly change at an advanced period, fix on the stomach, and surmise by a fatal issue.

Any copious bleeding, perhaps repeated, emetics, mercurial and other cathartics, the ordinary diaphoretics, pediluvium, sinapisms, the subacid and diluent drinks, constituted all that was necessary in the treatment.

Biliogastric Fever.

This was distinguished, by greater aggravation of symptoms, but was particularly known by the

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the great irritability the very distressing sense of heat, and gnawing, which afflicted the stomach, and by the very frequent vomiting of bilious, and mucous matter, the bile though not greater in quantity than in the bilious fever, when thrown up it seemed more acrid, and offensive to the throat, fauces, and taste.

But a decisive symptom, of this form of the disease, was a tenderness of epigastrium, which always occurred here, and never in the bilious. It was distinguished from the gastritis, by not having the tenderness at the epigastrium amongst its first symptoms, generally, this symptom did not occur until the third day, Partaking of varieties in this respect, it sometimes occurred at a much later period, as on the sixth, eighth, and even on the twelfth day in one instance.

It was also marked, by a uniform cessation of the discharge of bile, upon the occurrence of this tenderness, announcing a transition,

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from the liver to the stomach, which whence forth
destined to be the throne of the disease.

At first, there was no symptom to distin-
guish it positively from the bilious fever, but
when I became familiar with the expression of
the disease, for I was present with the patients
five hours out of every twenty four. I found it
possible, almost with certainty, to point out
their several characters, from their earliest
symptoms. The greater force of the Bilio-gas-
tric, was immediately evident. usually it
was introduced by an exhilaration of spirits,
a sense of fatigue, stiffness of the joints, verti-
go, sometimes fainting, pains of the head and
back, severe, and excruciating, lancinating thro
the forehead and eyeballs. The eye was red
and fiery, or inflamed, or not visibly affected
except in expression, there were high degrees of
delirium, the pulse was quick,
with some volume, and considerable force,

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amounting in frequency to 120, 140, and I have known it 160 per minute, great frequency of pulse however was not a ^{constant} attendant upon this form of disease, The skin was harsh and extremely heated, and there was great anxiety from distress of the stomach, and frequent retching to vomit; relief obtained from vomiting was not so complete, and repetitions of the effort were more frequent, than in the bilious fever.

A formidable disease, in which I imagine the mere power of nature, would never effect a recovery, whilst from a bold, and well directed treatment, in the early stage, in a patient of temperate habits, success may be ways be anticipated.

There can be no doubt as to the propriety of commencing with the most copious blood letting, taking from fifteen to thirty ounces, or as much as the pulse will at all warrant, repeating the operation with a

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a more gentle hand, as soon as some reaction
is apparent, and again as the case may
require. The demands of different cases
will be found very various, I have taken
fifty ounces in twenty four hours, and a
hundred and twenty in less than three days.
But rarely will this require to be
imitated.

There is no anodyne so soothing,
no impression so acknowledged by the system,
no means so calculated to arrest the morbid
tendencies, and keep alive the susceptibility
to other agents.

Whilst on the other hand, limidity, or
delay, gave time for the formation of morbid
action; and organic lesions, bringing with
it greater and more dangerous prostration,
and followed by more tedious convalescence.

The stomach evincing great irritability
from the first, was more disturbed by the

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perverted secretion of bile, constantly thrown
into it from the diseased liver, and would
only be appeased by vomiting, to promote this
was obviously proper. But in selecting
the means great caution was necessary, lest
they do mischief by increasing the irritability
of the stomach, and by inducing incessant,
and uncontrollable vomiting, or provoke the
stomach to inflammation, to which the disposition
is so strong.

Frequently it was sufficient
to swallow large draughts of tepid ^{water}, or an emetic
of ipecacuanha being given, the patient should
be obliged to swallow, as much as possible of
warm water, or molasses and water, or some
simple tea, by which means the effect is less
violent, is soon over and is more complete.
The emetic thus quite washed out, gives no
further distress to the patient. Thus relieved
he is tolerably comfortable, until a further
accumulation of bile, when vomiting will

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be again proper. By the repetition of emetics at proper intervals, the disease has maintained its bilious character, whilst from the neglect of this plan the Stomach must inflame. When tenderness of the epigastrium has occurred, emetics do harm, and as the secretion of bile soon ceases they are less required, and the Stomach must be composed by other means.

The Bowels are more frequently constipated, the discharges dark, and offensive, or otherwise.

In the choice of cathartics, perhaps the mercurials answered best, there is something peculiar in calomel, which allows it to agree with an inflamed Stomach. It was certainly retained, where all others would have been rejected. It tended sometimes to emulge the liver, to change its actions, and disposed to jaundice &c. I have seen in a few cases, a sudden accumulation of bile, follow the exhibition of Calomel, which thrown up

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up, was followed by a remission of fever. I am not
sensible that a salivation, to which a number of
numerous new subjects, did, any positive good, except
when called for by the particular circumstances of
the case. It served indeed to render convalescence
more tedious. But it is worthy of remark, that a
relapse occurred in no instance, after a mercurial
Isc mouth. Copious purging with calomel, and
other means, did much good, carefully avoiding
a Stenka, which if there is much debility is attended
with danger.

In no case, could more confidence be expressed
in the efficacy of a blister. Recollecting the local
nature of the disease, the importance of the parts
concerned, and the value of time, the blister should
be early applied, and of adequate dimensions, upon
the seat of the disease. It greatly soothed irritability
of the stomach, it charmed away much inquietude
and restlessness. As it drew I have seen the coun-
tenance expand, and the patient composed to sleep,

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It arrested the tendency to inflammation, and when inflammation did occur, the bliste was the *Sine qua non*. It was equally subservive of morbid action, whether going on in the liver, or the stomach.

It might be preceded by cups, or if time is very important, its drawing promoted by the application of mustard, or heated oil of turpentine, or lincture of contharides. If after the first evacuations, no remission was had in the ardour of the fever, blisters to the extremities contributed much to break its remaining force. They frequently diffused a grateful moisture over the surface, and did much to equalize excitement. But they were more particularly desirable on account of the tendency of action to introvert, to forsake the surface, as the disease advanced.

The many, and important advantages, derived from the rational application of cold in this fever, give it a claim to a high rank, amongst the resources of the healing art. Regarding the

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the receptive stimulus of heat, and bringing on a perspiration, when applied to a dry and parched skin, the fullness of relief and the grateful sensation it imparted, recommended it to the patient and the good it always did, in the case to which it was adjudged proper, establish its safety, and utility.

Still I would never without consideration, commit to the directions of a nurse, a remedy so efficient, and whose ill-timed application, might be productive of so much mischief. It was applied, by frequent passing a sponge of cold water over the whole body. Sometimes succeeding by pleasurable sensations, was derived from merely sponging the breast and temples, or feet, or allowing the patient to have a basin of cold water, in which to place his hands, or when a greater effect was desirable a sheet, all other covering removed, being out of cool water, was applied over the body. This was changed as required, and regulated by the effect produced, especially by the patient's feelings. care

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carefully avoiding the production of cold, or chillings.

Having indulged the patient with this delightful remedy, as far as thought proper, he was replaced between dry coverings, when he frequently broke out into an immediate perspiration. But not the least of the uses of this remedy, was in a local direction, as when the rage of morbid excitement, had accumulated upon some cardinal part, as the head, the stomach, and perhaps the liver, agitating by a strong commotion, the delicate web of the constitution, as far, as its extensive sympathies are felt. Cold cloths to the parts, by dissipating the heat, and equalizing excitement, would sometimes give more immediate relief, than any other remedy. Whilst from some peculiarity of structure, or of action, an inflammation of the pleura, or lungs, is always aggravated by the application of cold, it was distinguished by unimpaired powers, when applied to certain conditions of the stomach in this disease.

To relieve the violent affections of the head.

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which sometimes occurred in that period of anxious suspense, when the flitting spark of life, seemed-burged upon a breath, demanded the nicest calculations that could arise from much experience, and a just conception of the case.

There is a time, when we instinctively look to the lancet, as the chief of remedies, as being of itself equal to our most sanguine wishes, but after carrying it use to as great an extent as we may with safety, we are sometimes disappointed by the unyielding force of local attachments, that will continue to be displayed by the temporal pulse, violent pains heat, and delirium, a sanguine eye, intolerance of light, and sound, and all the symptoms of phrenitis or congestion.

The most pleasing effects, may now be derived from the application of cold to the head, by means of thin cloths, dipped in pump water, and changed every five minutes, or ten, according to circumstances. Ice water, or bladder of Ice. I have known

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in a phrenitis in this disease, a generation of heat so rapid, that the almost constant application of ice for 30 hours, was only adequate to the comfort of the patient. The effect of cold water, may be increased, when ice cannot be procured, by streams of cool air from a bellows. The immediate relief, derived from the mere shaving, and exposure, of the scalp to cool air, has sometimes been a matter of surprise. I have been compelled to attribute to this operation, greater merit than was due to the influence of cold alone.

To cooperate with the repellent power of cold it will now and then be an important measure to establish a revulsion, by means of warm and stimulant applications, to the extremities. The principle on which powers so diametrically opposed, conspire to a sameness of effect, that is to equalise excitement, is sufficiently obvious.

It is not unworthy of remark, that cold water in whatever way applied, was diuretic, but most so when injected into the bowels, occasion-

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occasionally a very comforting application of the
tumbler. Position of the head, has too much
influence to be neglected, some elevation will for
the most part, be found of great advantage.

In the choice of Diaphoretics, the condition
of the stomach is to be recollectcd.

There are cases in which those which dispose
to vomiting are obviously improper. When this is not
to be feared, the stimulating sudorifics, as a meat,
and useful medicine, or the Dover's, or Nitrous
powders, or the Spiritus Mindereri, or the effe-
rescing mixture, the Baln, the chamomile,
and Eupatorium, & Serpentina, &c, might all
find a place.

But to deluge the stomach
with medicines, can scarcely be useful. In this
disease, nothing should be given without conside-
ration.

For the promotion of diaphoresis,
it is sometimes necessary to depend upon other
means, than those addressed to the stomach.

When the heat of the skin is ardent, with great



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great restlessness, and inability to sleep, nothing could be so extremely grateful, and soothing to the patient, as exposure to cool air, or sponging the whole surface, with cold water. Sometimes the vapour bath, might have a preference. Such means, were amongst the best diaphoretics.

To allay thirst, cold water, carbonated water, lemon tea, apple water, lemon, tamarind, and other acidulous drinks, answered very well.

Occasionally there was excessive thirst, accompanied by a painful dryness of the tongue & fauces, which found great relief in frequent minute portions of Calomel, as the fourth or eighth of a grain every half hour, for six or eight hours.

To allay vomiting, amongst the best means were the effervescent mixture, lime water and milk, oil of turpentine, of cloves, and of amber, an opiate injection, a few grains of Sugar of lead, or the insertion of a large pill of opium into the rectum, has succeeded when all the ordi

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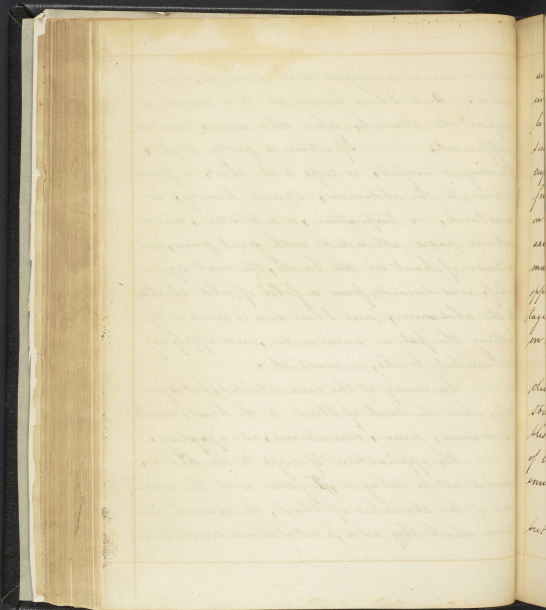
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ordinary means, adscribed to the stomach, have failed. And I have known the tela aranea to compose the stomach, when other means were insufficient.

If action is pretty high, bleeding is useful, or cups to the chest, or fomentations, to the abdomen, spiced brandy, or mustard, or turpentine, or a blister, and in certain cases, attended with great pain, and a sense of heat in the bowels, the most signal relief, was derived, from a fold of cold cloths, to the abdomen, and I have seen it arrested by bathing the feet in warm water, and applying to them, hot bricks, or mustard.

In many of the cases detailed, but especially, when the rush of blood to the head, resulted in mania, coma, convulsions, and apoplexy.

The application of cups to the head, should not be delayed, together with the abstraction of the stimulus of blood, the external irritation which ^{they} add, is not of inconsiderable advan-



advantage. It is greatly in favour of cupping, that in many of the violent affections of the head, which may be accompanied by a languid, or oppressed, circulation, some ounces of blood, may be taken with advantage by cupping, when the smallest quantity, taken quickly from the arm, would make an injurious impression on the system. To explain this, we may refer to an axiom in another place laid down, that in inflammation of any of the great viscera, accompanied by an oppressed circulation, blood may be taken with advantage or the reverse, the result depending altogether, on the manner of the operation.

But there are circumstances which preclude altogether the use of cups, which notwithstanding demand the application of cold, or of a blister, and many cases in which the joint operation of cupping, cold, and blistering, in the order here enumerated, may be required.

When the affection of the head was evidently but symptomatic of the affection of the stomach,

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Blisters did more good when applied to the extremities, than to the head. I have frequently remarked in mania potus, that a blister on the legs, or in preference over the stomach, does more to quiet the turbulence of mania, than when applied to the head, or neck.

But there has happened in mania potus, and frequently in this disease, such a true phrenitis, that a blister to confer essential benefit, must be applied over the scalp.

Hicough, was often very embarrassing. I have seen it in one case, almost incessant for three days, when it was immediately relieved, by a pill of the tela aranea. It was afterwards repeatedly given with the same view, and was found to be the best means in our possession, for this purpose.

To compose inquietude, and delirium, the tela aranea, was sometimes found, to act like a charm, in cases, to which opium was not suited. From what I had seen of the effects of this medicine,

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I was induced to give it, to correct the unpleasant consequences, which, resulted from an opiate injection, in a case in which some old, and insipid laudanum, had been incautiously used. It acted like a charm.

The free admission of air, was at all times of the highest importance. When in consequence of a violent rain, the windows were closed for an hour, a change was ^{very} perceptible in the whole face of the ward; in whatever constitution, or stage of the disease, all equally suffered.

It was found necessary to keep all the windows quite shut, day and night. When they were closed, or little air stirring, the vapour arising from the sick, had sometimes a peculiar toxic effect, on those in attendance, of which I was myself particularly sensible. It once caused me to faint. Every considerable change of weather, produced some effect on the tendencies of the disease. It was sometimes found,

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necessary to enjoin the strictest observance of Silence,
especially to suppress observations calculated to convey
fears, as to the result, to conceal the deep solitudes
which may become too intelligible upon the counten-
ance, to exclude the light, when happily sleep
may be induced thereby, or by admitting ^{delight} to chase
away the phantom which disturbs the imagination,
and to ban a care of many incidental sources
of excitement, which in health would make no
impression. It is by a careful observance of these
things, that our highest purposes are accomplished,
as the following ^{from} will sufficiently illustrate.

An interesting young lady whom I was
called to attend, fell a victim to the extravagance
of a Mother's passionate fondness, who when life
was suspended by a delicate thread, hung over
her, and wept aloud, until her child filled with
alarms, and sympathising in all the grief, and
agitation of her distracted Mother, and worked up
to the highest pitch of delirious excitement,

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convulsed and exhausted, died.

Before parting with the disease treated of under this head, I will take the opportunity of introducing an interesting case, though conscious it might have been better located.

A young man, who came under my notice, was said to have a stroke of the sun, brought on by exposure to fatigue, in a very hot day, upon the wharf, below the city, he lay himself down, without having complained, and was soon afterwards found to be in a very heavy sleep from which he could hardly be awoken, by any means his muscular power was but little diminished, but all sensations and consciousness appeared to be extinct. Without speech or motion, he would stand or lie, wherever placed, his eye was of a dusky yellow, cast down, and suffused with tears, a fixed sadness was on his countenance, his tongue covered with a delicate white fur, his skin natural, his pulse slow, regular, and soft.

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I directed an emetic, but could not procure an operation, until he lost blood, when an unusual quantity of dark bile, was thrown up, a mercurial purge, now brought away copious, dark, and offensive stools. By the next day, the case was more intelligible, there was no great return of sensibility, he sighed, & rolled, called for drink, and was heard to exclaim his stomach was on fire; his skin, and tongue was dry and heated; his pulse at the wrist, more full & frequent, and the temporal arteries throbb'd forcibly. He was cured by mercurial purges, the loss of eighty ounces of blood, a large blister over the stomach, and cold applications to the head.

The case is interesting, and open to the inference that practical minds may draw from it, does it shew any connexion between the Sotus Solis, and the Bilious fever? It is at least curious to trace the movements of disease, thus leaving its retreat in the brain, and throw-

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throwing off its disguise, as soon as the natural
functions of the stomach, and the irritability of
the system is restored.

Great care was necessary when reaction took
place, rightly to graduate the quantity of stimulus,
to the accumulation of excitability, for in convalescence,
weak portw and water, and the lighter vegetable
tonics, have provoked a fever. In early convalescence
animal food was eagerly desired, and always did
harm: remonstrances alone were insufficient to
restrain the temptations of appetite. The food
most innocuous, and chiefly relied on, consisted of
panada, tapioca, boiled rice, bread and milk,
potatoes, oysters, eggs, light soups, with a
variety of ripe fruits. Mellons were innocent,
and very grateful, and being plentiful, were
freely indulged in.

To avoid the tedium of detail,
and of elaborate views, I have been obliged to
reject much, of what I had thought interesting,

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and I fear I have already trespass'd, on the ordinary limits of an inaugural essay. Much of what has been said in a general way, under this head, will equally apply to the

Gastrobilious Fever.

This disease, ~~this~~ was easily distinguished from the inferior classes, by the tenderness of the epigastrium being amongst the first of the symptoms, also by the sense of heat in the stomach, and anxiety about the præcordia, and also by the absence of bile after the first day. Bile was indeed rarely seen, after the first paroxysm of vomiting.

All the sympathies of life, seemed to be engaged from the first, the eye was watery, or red, and was finally converted into a muddy yellow, the complexion was natural, or leaden, or bronze, or of a mahogany die, or became icteric.

The expression of countenance was unchanged,

or tranquil and serene, or exhibited a peculiar intonation, or idiocy, or silent grief, or malignant frown, or betrayed the utmost anxiety & terror. But however varied, there was that about it, by which it could hardly be mistaken, by those having constant intercourse with it.

The pulse was more hard, but was full and active, or small and extremely frequent, or hotting and oppressed. It was remarkable, that the patient was sometimes sensible only, of an increased heat in the stomach, until pressed upon by the hand of the physician, when he instantly cried out from extreme tenderness.

There was a great collapse of the system, every power seemed to fail under the weight of disease; the mind partook the conflict, it was sunk into fatuity, or exhibited alternations of depression and exhilaration, or wild in delirium, or irritable, and greatly agitated with consciousness of danger, indispensably

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incurably, writhed, he sought relief in change of position, and of attitude, rolled, sighed deeply, and occasionally uttered inarticulate complaints. There was a universal prostration of muscular power, or a paralysis of the extremities, or no perceptible change in this respect till the last. Sometimes there was a soreness of the throat, and with or without it, a difficulty of deglutition. There were erections of wind, and without a natural effort to vomit, the mouth was occasionally filled with the contents of the stomach. The abdomen became tense, and tumid. There were involuntary discharges, of dark, thin fices, and of urine, & hemorrhages, from the patulous mouths, of some of the extreme vessels. There was ^{finally} a sudden sinking, or convulsions ended the scene.

Subject to many varieties in this respect, the disease sometimes advanced many hours,

hours without any Pyrexia. the skin at length acquired a febrile temperature, or became exceedingly ardent, the pulse increased in frequency, and volume.

The maculation was kept up without remission, a much longer period, than ever happens in the autumnal, Bilious fevers of our country, and having once subsided, there was commonly no return of it, unless the disease was broken, or convalescence dawning, the remissions that were marked, were indistinct, and hardly observable.

If a continued fever can have an exanthema, this was truly entitled to that character.

Again, whilst in the Bilious remissions, convalescence is proverbially tedious, and the liability to relapse, greater than happens in any other fever, here the convalescence was singularly rapid, and complete. From the comparative paucity of relapses, I am clearly

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the first of the year the state of the
country was very different from what it
was at the beginning of the year. The
winter was very severe and the
country was covered with snow. The
people were very much distressed
and the government was very much
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clearly of opinion, that a partial protection at least, was afforded the system, against future attacks. whilst in the common autumnal Bilius, the susceptibility is increased.

A very satisfactory opportunity of testing these views, was afforded me, by comparing them with what occurred in more than 200. cases of bilious, and enteric fever, which in the subsequent summer, were brought to the same institution.

How the milder cases, of the Endemic of which I am treating, could have been of bilious form, and yet retain the relationship, to the malignant gastric fever, unimpaired, has been sufficiently explained on another page.

I am only tenacious of facts, my particular views, I am willing to submit to the test of future experience, and here I will take the opportunity of remarking, that in every division of this endemic fever, the diagnosis, sufficiently

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sufficiently distinguished it, from the Autumnal
fevers, common to our Country. This disease was
marked by the variety of its form, the strange, anoma-
lies of which it occasionally partook.

Here the powers of medicine, is fairly tested,
but if called early to the combat, it may in a great
majority of cases, come off victorious, yet to expect uniformity
of success, even under the most favourable circumstances,
is to be disappointed, for there are cases, quite out of the
compass of remedial power.

Entering upon the treatment, with great
circumspection, we find that, here, unlike the biliousgastrie,
emetics are contra indicated. So tender and irritable,
the Stomach will not endure with impunity, the vic-
lence inflicted by vomiting. To compose it when
provoked, has called into requisition every effort of judge-
ment, every resource of the art. Evacuations were
not the less demanded, Costiveness was here more uni-
form, and more obstinate, than in other cases, various
cathartics answered, very well, but perhaps none

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bitter than calomel in large doses, or frequently given, aided by laxative enemata, and if so much should be required, a chachin of Calomel, may be taken with perfect safety.

To decide on the use of the lancet, required the exercise of a wiser discrimination. In perhaps a majority of cases, there could exist, but little doubt as to its propriety, whilst others, were said to be typhoid from the commencement, and the lancet was laid aside. To the propriety of calling this a typhoid disease, I think it right to object. In what it resembles Typhus fever, I am unable to perceive. They differ in their nature, location, and symptoms.

The pulse was indeed weak at the wrist, but the blood was thrown upon the heart, and large arteries.

That the circulation may be interverted unequally distributed is certain. I have seen the heart palpitate, the carotids beat strongly, and a considerable force in the temporal arteries, whilst from the wrist, the pulse was absent, or hardly perceived. Such instances

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were frequently in this disease. In all cases of inflammation of the abdominal viscera, especially of the stomach, and intestines, the same thing obtains to a certain extent. To relieve this condition, the local inflammation must be relieved, to do which, no means are so effectual as bloodletting. The circulation is not exhausted, but oppressed. Notwithstanding, the lancet is a dangerous weapon, in unpractised hands, blood should be very slowly detraicted, the quantity at first small, the effect cautiously observed, the orifice closed, when the pulse begins to fail.

Then the limbs may be bathed in warm water, or brandy, or briskly rubbed in, any stimulating embrocation, or sinapisms, may be applied, and some warm drink taken. These means properly applied, will soon have the effect, of uniting again a flow of blood to the extremities, which perceived, the run may be immediately opened, with the same caution as before. By such means only, can an equilibrium of the circulation be established,

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I have seen these means followed by a strong and powerful reaction, as was indicated by a glow of warmth, and moisture, that suffused the surface, and by the blush on the cheek.

A young man, a stranger, having arrived in this city from Baltimore, remained three days upon the wharf, when he was taken ill. Seen on the second day, his case was of the kind before me, there was some tension, and tenderness of the abdomen. Such prostration of power, and of sensibility, with a small, creeping pulse, that loss of blood, was by others deemed improper. Trusting to the lessons of experience, in the face of opposing fears, a vein was opened, and four or five ounces, being all that could be lost with safety, were taken, it was now evening, the bandage got off his arm in the night, and he bled it was supposed, more than twenty ounces into the bed, and was in the morning still bleeding guttation. Though extremely weak, he expressed the greatest relief, and his

mind was less confused, his pulse rose in the afternoon, and being followed by headache, and some heat of skin, and a flushed face, he was bled again, about six ounces, he rapidly recovered.

I pause whilst it records what I felt in my own person, may not be obtrusive in this place, as it well illustrates the propriety of the measures, which I am about to recommend.

I was, at one time, sensible of an unusual degree of heat, and septic effect, from the halitus, arising from the sick rooms, a yellowness was observed in my eyes, &c. and I felt a dull pain in my right side, which continued for some days, until the effect being probably increased, by a visit which I had occasion to make to the infected district, one morning, a violent cramp seized the muscles of my legs, in the evening of the same day, my system being impregnated with the miasmata, I fainting whilst in the act of prescribing, I immediately retired to bed, and slept, but

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soon, a pitchiness the most indescribable came
over me, depriving me of all conception of what, and
where, I was. When suddenly, the light of the moon,
presenting objects in my chamber in their natural
appearance, I found myself out of bed, and
seated, my head, clasped in both hands, was
affected with pain of the most fierce, and lacerating
kind, a high fever accompanied, with difficulty I
could compose my senses. I resolved instantly on
opening a vein, as the blood flowed, the pain
began to remit, and vanished, my bewildered imag-
ination became collected, I felt reluctant to check
a stream, which flowed but to relieve, having
suffered the loss of about thirty ounces of blood,
my stomach sickened, I took an emetic of calomel
and ipecacuanha, and was relieved of an im-
mense quantity of bile, I now slept, and per-
spired profusely until morning, and felt no other
inconvenience, than a temporary relaxation. Thus
a serpent is slain, by crushing its head.

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To multiply examples, to prove the superiority of bloodletting, over all other remedies, would be in this place unnecessary, but there are some amongst us, upheld by a specious reputation, whose timidities or prejudices, founded mostly on some luckless misapplication of the remedy, dispute its high claims, and with specious pretensions, seduce the ignorant into a blind assent to their error.

A young Physician of this city, called to see a coloured man, in an advanced stage of the fever, invited me to accompany him, we found the patient suffering symptoms of very great prostration. The insensibility, and cadaverous feel of the skin, the sunken expression of countenance, the collapse of mind, and his pulse of the full regular, but gaseous kind, all sufficiently indicated his extreme danger, and the course to be pursued. My friend deceived by the mimic force of the pulse, would have him bled, I urged my objections, against it in

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in vain, and left him, he performed the operation, and in three hours, came to let me know his patient was dead.

Some good should have resulted from a lesson so serious, but the Doctor in a panic at what he had done, hastily took up the opinion no less fatal in its consequences, that in the prevailing epidemic, the lancet should be altogether laid aside.

With a nice perception of the pulse, and a mind to perceive, and weigh the circumstances of the case, it cannot be difficult to do right. When a physician thus raises an indiscriminate hue and cry, against the lancet, his judgement is to be suspected, and it is reasonable to presume, that in his hands at least, the lancet is indeed a dangerous remedy.

A case of the most ardent fever, which came to my knowledge, in which there was a distracting pain of the head, with a burning

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heat, and extreme tenderness of the stomach, from which the patient rolled, and groaned, and sometimes in agony was thrown out of bed, upon the floor, he was denied the lancet, and I need hardly add, died.

Subsequently a lady taken ill with a fever, not inferior in malignancy, she had when I saw her a flushed, tumid countenance, strong pulsation of the temporal arteries, a very frequent pulse, with some force, incessant retching to vomit, and evacuations which were accompanied with convulsions. It was alleged by the physician to whose care she was committed, that bleeding would throw her into a typhus, the one and only remedy, in which there was reason to hope being withheld, she fell into a worse than typhus, and died.

I was informed of the case of young man, in whose fever every symptom called for the lancet, the case nearly resembling those

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just described, he was told by his physician that in the prevailing disease, it was extremely improper to bleed, and that in his case the loss of an ounce of blood, might be very injurious.

But happily nature is not always destitute of resources, when the signals which she holds out for succour, bring no relief from art.

In the night the blood burst in streams from his nose, and bled almost two quarts, as it could be restrained, he now rapidly recovered.

The timely employment of the lancet, would have done equal good, without the danger of the hemorrhage. When the sensibility of the circulating power is morbidly increased, the stimulus by which it is moved, should be proportionably withdrawn, or there will follow such an expenditure as to threaten life.

Whilst in its more common effects, bleeding relieved the stomach of heat, and irritability, and delayed vomiting. In a few instances

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I have remarked a copious bilious vomiting, very soon to follow the loss of blood, where little or no bile had appeared in the previous vomitings, this was always a salutary effect. To account for it, we may suppose the liver to have its operation suspended from the disproportion between the powers of the organ and the excessive stimulus of blood with which it is oppressed, but when relieved of its load, the liver immediately resumes its office, and perhaps for a time, surpasses the effect of a healthy, or uninterrupted secretion.

Thus the oppressed slave, sinks beneath the burthen to which his strength is unequal, and, thrives in pain, to rise, until a portion of it is removed.

We may refer to the same principle, the procuring an immediate preparation by bloodletting, where all the stimulating means previously resorted to not only failed of the effect, but added to the distresses of the system.

On the same principle, by graduating

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the matter acted on, to the vital energy, that we may account for the rise, of an oppressed pulse after bloodletting.

I have frequently observed an immediate evacuation of the bowels, to follow the operation of bloodletting, and more than once this has happened, when costiveness had previously resisted the usual means with obstinacy.

Anasarca swellings, Rheumatisms, &c, which were amongst ^{the} sequela of this disease, were as often the consequence of neglected bloodletting.

Whatever disease previously occupied the system, if not entirely displaced, and extinguished, by the greater force of this disease, it was not allowed to slumber, but aroused to greater activity by a new and powerful impulse, it entered the whirlwind, ^{to} intensifying its ravages. But I must attach some importance to the fact, that such effects were most conspicuous, where venesection was neglected. Contrary to a very generally received opinion, constitutions

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rendered irritable from the continual vibrations
of an old disorder, *catarrhis parietis*, demand
more especially the loss of blood.

A young woman of spare and delicate
frame, having suffered more than four years, from
a painful and corroding hepatic disease, became
at this time violently ill, with fever, excited by
great fatigue, and anxiety, from nursing her
father in the same disease. She desired
the physician then in attendance to bleed her,
he replied that she had not one drop of blood to
spare, and also suggested, that as her sexual
term was just then coming itself, it would be
improper to disturb the system, by the loss of
blood. She came under my care,
her symptoms were urgent, and pointed di-
rectly to the lancet, unwilling to wear a con-
viction, that rested on the unyielding lessons
of experience, I drew twelve ounces of blood, when
she fainted, a circumstance that awakened

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suspensions not easily quieted, such was the reaction, that in twelve hours I again opened the vein, and took twenty ounces more, when she expressed great relief. I afterwards found it necessary to bleed her twice more, but sparingly. As a definer, a blister was kept discharging from her weak side, during her illness, she recovered very speedily, and she has not since suffered from her hepatic affection.

Contending against an insidious and confidence of success, is opposed, not more in the strong, than skilful arm, the vigorous onset, than the judicious retreat. There are many cautions that must direct, and stay, the hand of the physician, but which have been in other places, sufficiently inculcated. I will here give it as an axiom, that in inflammation of any of the great viscera, (which is for the most part, accompanied by a depressed pulse) blood may be removed with advantage, by an sa-

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experienced, and skilful hand, to such an amount as would have proved speedily fatal, if incautiously taken.

Time must be allowed the system to repair the loss of the general circulation, which is effected by a retroflexion from the engorged viscera, but as this cannot be quickly accomplished, if blood be too hastily drawn, the system will sink irrecoverably.

Before parting from this interesting subject, I have yet to make a remark upon that disorder circulation, which has often deceived the less discriminating and added to the doubts, as to the safety of the lancet. Contemplating the gaseous pulse in the thickest pathological view, I conceive it to be the natural effect of that expenditure of stimulatibility, and contractility, consequent to excessive action, One of the great and essential springs of vital action, having its vigour impaired and paralyzed withholds its agency, in propelling the blood onward, through the minuter ramifications of the

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vessels, have the arteries contain more than their
due proportion of blood, and, are dilated to their
greatest dimensions, the impulse from the heart
not seconded by the contraction of the smaller vessels,
~~little~~ communicates to the mass of blood, little
more than an undulatory motion, which is lost
in the elasticity of the vessel, or rebounds from
the slightest touch of the fingers. To preserve
this feeble circulation, until reaction may take
place, demands not only all the stimulus, that
may be derived from the peculiar nature of the
fluid, as blood, but even the stimulus of disten-
sion. At this critical emergency, nature
destitute of resources stands at bay, the efforts
of art, the most refined, and unremitting, may
not always succor. Should officious ignorance
misled by the deception bounding of the pulse,
draw the patient to the loss of blood, the vessels
collapse, and the sufferer dies.

In advocating the claims of bloodletting

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I hope to escape the charge, of a blind devotion
to the remedy. I have been restricted, within the
compass, which my own convictions, and the obli-
gations of duty prescribed. Suffer would have
been a tribute, unworthy the means, by which our
highest purposes are accomplished. By whose influ-
ence we have so often, arrested the expiring sigh,
and fanned it into life, by whose magic, pains
the most racking, and intolerable, are forced to
lose their hold, when no other power could
move, or charm away, by which the red
eye, the savage fierceness of countenance, and the
wild distraction of mind, are pulled down
to the calm expression, of a more tame disorder.

I have witnessed features, distorted by the
dissolving agonies, of an unequal conflict, or
the horrors of a phrensioned imagination, expand
and, composed to an oblivious, and refreshing
sleep; or assume the tearful smile of thank-
fulness and hope, as the vital stream flows

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flowed from the arm. Shall I then turn
from it with indifference, or hear it calumni-
ated, and not feel indignant at its wrongs.

Stimulating applications externally,
were more important in this, than in any other
form. It is to be recollected that the stomach is
for a time incapacitated, its accustomed functions
suspended. Every avenue through which stim-
ulability is accessible, should be borne in mind.

Bleed injections medicated, or nutritive,
were particularly useful, that they do great good,
my observation has entirely satisfied me, but to
the skin, stimulating applications were doubly
important. In this disease, patients often
began to die at the surface. The pulse remains
of life, hovering about the heart, kept up for a
time, a partial existence, amidst the death of
the capillaries. Sometimes the skin has become
quite insensible, whilst to the feel it was
warm, and natural, but this was a mere

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paralysis, or torpor, which was remediable. But when cold, or peculiarly cadaverous to the feel, or to the smell, I have marked it a fatal symptom. To divert such tendencies, when they were obvious, frequent frictions with hot brandy, cayenne pepper & brandy, oil of turpentine, the oleum monarda punctata, with sinapisms, or these aided by a warm bath, were commonly sufficient. But to arrest a morass approached to death, when such means made no impression, I have succeeded by pouring on hot water, particularly on the extremities, upon the body it was less required, not scalding hot, but graduated to the remains of excitability. Though if a less degree of heat produced no sensation, it is obvious that harm could not result, from a boiling heat, hence the safety of the measures. Notwithstanding, great caution was necessary, in the adaptation of the remedy, never allowing a greater warmth

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than would produce some sensation, sensibility
awakened, the effect should be carefully preserved
by stimulant frictions, but what I have found
to answer best, was the application of mustard,
over at least one third of the surface, particularly
on the extremities, but at all times preserving
warmth by the application of heated bricks,
bottles of warm water &c. If this last be
forgotten, all other means are unavailing, there
I am sure I have seen life preserved in some
instances, and in others a kind of artificial
existence kept up in the dying, for two or three
days, without exciting redness, or even sensa-
tion. Sores of the skin occurring, was al-
ways auspicious, and gave hope recovery.

The great importance of preserving the tem-
perature, should never be forgotten. Warmth
is as essential to our existence, as air or aliment,
as we remove its offensive stimulus when accumu-
lated in the ardent fever, it is equally necessa-

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necessity, when from too great expenditure of life it ceases to be generated, to supply it by art.

The great remedial power of heat, does not seem to have been rightly appreciated. To enter here on considerations of this nature, would be foreign to my subject. But having spoken of its particular application in this disease, and aware that there is something novel in the practice, I may be indulged in introducing the case, to me an interesting one, from which I derived my first impressions of its remedial value.

In the spring of 1820, a young man, having laboured nearly two days, under the influence of a poison, taken with a view to suicide, for the last twenty four hours buoyed on the lowest ebb of life, was sent by Doctor Chapman and Stewart under whose care he had been, to the almshouse. Now in articulo mortis, no one entertained hope of his recovery. He gasped and threw back his head

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and shoulders, at every inspiration, his pulse was slow, interrupted, and almost imperceptible, his extremities cold, his abdomen tense, his forehead glazed, his eye half open, and fixed, the pupil dilated, and quite insensible.

Having pumped out the contents of the stomach, and injected into it wine whey, he was well rubbed and mustard applied to his stomach, and extremities. Now waiting the event which was expected every minute. After about an hour his pulse ceased, his breathing was interrupted, and almost suspended. At this moment it occurred to me, to try ^{as} a dernier, what might be the effect of pouring on him hot water. Before it could be procured, he had ceased to breathe one minute. I caught it up, and poured a stream boiling upon his bosom, his countenance was at the instant, thrown into the most frightful distortions, and the ^{eye} wide open, that those around him were startled, with surprise. Strong

convulsive motions affected the muscles of the throat, and he breathed with astonishing vehemence and steror, so much, so as to disengage a quantity of mucus collected in the trachea. I had the satisfaction to perceive, in a few minutes, the pulse at the wrist, and to find his breathing kept up, by rubbing him, and rolling him in bed. As his breathing began to fail, I again poured hot water on his breast, with a repetition of the same violent effect, by which his skin was inflamed and perspired.

Having produced redness of the wrists, and ankles, by the same means, which caused for a time a strong contraction of the muscles of the extremities, from the pain it gave, he was kept warm by hot bricks, and blankets. It was now about eight of the evening, I staid with him all night,

such was the relief which the stomach obtained, from the strong countercompression of the pæd, and through it, such the general relief,

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that by midnight, his respiration was greatly improved, and his pulse began to flow with freedom.

By three, there was such a reaction, as indicated by the pulse, and the warmth of the skin, that I ventured to remove three or four ounces of blood.

He now so much improved, that I was confident of success, when at eight in the morning, I was suddenly disappointed of my hope, by a strong convulsive fit, from which he did not recover. I had no hot water by, to try again its power, but have not forgotten its effect.

Returning to the fever, we find a case in which the patient has outlived the inflammation of the stomach, but from the great expenditure of secret bilious, that organ is not immediately reinstated in its healthy actions, but there is a torpor corresponding with that, which has occurred in the skin.

A case from which deductions may be made, proving the degree of insensibility sometimes occurring, and pointing out the ap-

appropriate treatment, may be here advantageously introduced, Being of this description, and thinking the patient about to expire, I directed the nurse, to give a large spoon, every half hour, of the volatile julip, to be washed down by a few spoons of hot, spiced, brandy, and to rub his skin with the following mixture, Mustard ℥i, cayenne ℥i. oil of turpentine ℥iv. The next morning I was delighted, with the improvement, made in the patient. To test the nurse, it was my habit always to require of them, to repeat to me the directions last given, When to my astonishment, I found that by mistake, he had given the patient the whole amount of the mustard, cayenne, and turpentine internally, bathing him in the volatile mixture. Sensibility slow in returning, he only complained of the few last doses burning his throat, now supporting the awakened excitability, by gentler means, he recovered.

Though I believe cases are exceedingly rare, in which such a practice might be imitated, I thought

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the case worth reflecting.

With a view to strong impression upon a torpid stomach, large doses of the oil of turpentine, were given with great advantage, a medicine which seemed to find a place in every form of the disease, in the inveterate stomach, there was nothing more soothing, and, on the pulse, the effect was proportionally salutary. Combined with sweet oil, it formed a very convenient purge, not less advantageous in the forming stage, than after reduction of excitement. By its very purgading influence, it in a remarkable manner promoted the secretions, especially that of the kidneys, which were constantly torpid. It was always comforting to the stomach, even when large doses were taken, at a time, when all other articles so stimulating, would have accelerated the fever. Such unaccountable partialities, between medicines and diseases, are in other instances displayed.

From analogy, but more from the facts

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before us, there is reason to hope, that turpentine, as suggested by Doctor Chapman, may prove the appropriate counter-agent to the peculiar poison of this disease.

The remedy which shall abridge the devastating power of the yellow-fever, is of all others the most desiderated.

Times have been, when humanity has entrusted her all to the genius of medicines, such times may soon be here, then never should she slumber, whilst any doubt enshrouds such momentous questions.

I have now concluded what I had to remark, on the Gastrobilious fever. But one remove further, and we arrive at the last link in the chain.

The Gastric Fever.

differs from the other forms of the disease, in the entire absence of bile, in its undivided reign from the first to the last, in the stomach,

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in its being the consummate effect, of the poison which generates it. In its awful fatality, it is emphatically a malignant fever. Sometimes the sure finger of death, was evident from the first, and could not be averted. "*Sompta non visulla corruptos levant*". Indeed its symptoms, were nearly allied to those produced by a mortal, corrosive poison, taken into the stomach.

Located preeminently in the stomach, the fountain head of numerous and important vital sympathies, is at once cut off. Systems, owing the harmony and integrity of their movements, to the health of the stomach, are merged in confusion. The great polar star, which gave light to the operations of mind, and controlled the sensitive organs, the circulation, and the secretions, has fallen. Animal temperature is unequally diffused.

Whilst ^{disease} an humble, restricted by the authority of the vital government, pursues more

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obvious path, this on the contrary, void of forms,
trackless, and superior to control, partakes of every
species of irregularity, and is often inscrutable
to the most perspicacious eye, and under the most
successful treatment, hitherto devised, fatal per-
haps in the ratio of one half. But from what
has been done, since the elucidations, which
the dissections of Doctor Physic, and of my precep-
tor, the late and much lamented Doctor Dewey
have afforded us, I believe there is less reason
to despair of success, if the disease is combated
on equal grounds. Recollecting its local, and
inflammatory nature, and that it is the product
of a peculiar poison, itself peculiar, an early
and decisive effort is to be made, combining
those means, which most effectually counteract
the disease, whilst they reduce the excitement.
In short, the precise treatment, which has most
of my confidence, is briefly as follows, Beginning
in the forming stage, without which, no plan

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can be successful, blood is to be drawn to an extent which the emergency of the case, and the reactive powers of the system alone, must limit. At the same time, a blister of the most active kind, is to be applied, sufficiently large, to embrace the whole region of the stomach.

Discarding emetics, as altogether dangerous, I would cleanse the *primæ viæ* with Calomel, which has proved itself in this place the least irritating, if not the most certain of the cathartics. — Adding a quietus to the stomach, for this purpose amongst the means formerly mentioned, nothing answered better in a generality of cases, than the *Spiritus turbinthinæ*, in the usual way, or a large quantity of this medicine, obtaining its pungency, by the addition of sweet oil, with a view to quicken the operation of the Calomel.

We were using ~~it~~ as an anti-emetic with advantage, and in the last stage of the

disorder, as a cordial stimulant, to arouse the sensibility of the stomach, or recover it from a tendency to gangrene, when we had the favourable reports from the City Hospital, of its use as a Counter Agent, when given early in the disease, these reports were calculated to inspire confidence in the remedy. The view that suggested the practice, seemed rational, it was in a few instances imitated, and the result entirely surpassed my expectations.

There is no appearance that can present in this disease, that may be considered unimportant. Every adverse symptom, is to be combatted on the threshold. But as my opportunities of observing this multifiform disease have been too limited to warrant any remarks, and desiring in this place, to assert only what my own eyes have witnessed, I will leave it to those whose experience is ample, to fill up the picture.

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On Dyspepsia.

As histories of cases in detail, would be unnecessarily tedious, I shall but make a few general remarks, inclusive of the more uniform morbid appearances, which will better explain the pathological views, which I have exhibited, and the propriety of my nosological classification. I will introduce three cases which merit particular attention, as striking specimens, of that variety of phenomena, which with little exception occurred in the Stomach. These were brothers, between the age of seven, and fourteen, who all sickened on the same day. I was informed their father had purchased from on ship-board, a quantity of damaged potatoes, which had been some days kept putrid, and offensive, in the house which they occupied, when they became ill of a fever, which was of the Gastro-Relicous form,

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I learned, that they had vomited
much of bilious matter, on the first day,
which, on the second, when first I saw them,
had subsided. These were cases of very ex-
traordinary virulence. It did not appear,
that an adequate impression could at this
time be made, by any treatment. And
they were remarkable for the exact correspon-
dence of symptoms in each. They were in a
state of constant jactitation, rolling, and
tossing their arms, they sighed deeply, &
sometimes uttered broken, inarticulate cries,
as if suddenly pierced with a dagger.

Their delirium, was at all times such, that
they recognised nothing aright, and were so
unconscious, amid the agony they suffered,
that when urged to say how they felt, they
generally answered, very well. Their eyes
were inflamed, and commonly closed, & tears
frequently issued from them. The ab-

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abdomens was tense, and extremely tender. I saw one of them rise frantic from his bed, and attempt to jump out of the window of the 2nd story.

In a few minutes afterwards, his mouth filled with a dark matter, and he died in convulsions, being between the third, and fourth day of his disease.

His stomach was found to be highly inflamed, containing a bilious black vomit, that is, tinged with bile, the liver was congested, and enlarged, the gall bladder was full of dark bile.

The second died on the fifth day, his stomach was found full of black vomit, with no admixture of bile, and merely exhibited a blush of inflammation, the liver was quite pale, and the gall bladder contained but a thin mucous matter, unlike bile, notwithstanding this, that the liver had been affected, at one time, was evident, from the early bilious vomit, but the case was pro-

protracted, until the counter impression of the
stomach, had time to cause the liver to be relieved.

From the extreme tenderness of the stomach, and
from the black vomit, which it now contained,
there was sufficient evidence, of its having been
inflamed, but it had time to be relieved of the
appearance of inflammation, before death, by the
secretion of black vomit.

The stomach is more than any other
organ, capable of immediate transmutations,
from health to the varied conditions of disease,
et vice versa. Its susceptibility to morbid
impressions, is greater, and its recuperative
powers, are in the same ratio.

The third case, corresponding in its more
prominent features, with those just described,
survived until the seventh day, neither black
vomit, nor sign of inflammation, was found in
the stomach, though a matter of this description,
had escaped him before death, by involuntary



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Stool, and was now found in the colon, and
return, A discharge of similar matter, occurs
in other cases before death, and as a symp-
tom, may be regarded equally as fatal, as the
black vomit. The liver in this instance
also, was pale, and the gall bladder quite
empty.

These three cases, were striking instances of
what constantly occurred, for it was found in all
dying immediately after the inflammation appear-
ed in the stomach, at whatever period of the dis-
ease, it might have taken place, that the stomach
was highly injected with blood, or inflamed,
and might, or might not, contain black vomit.

The symptoms of inflammation of the
stomach, having lingered undured, this viscus was
found to contain black vomit, but the inflam-
mation, the source of the secretion, did not neces-
sarily appear after death.

In those dying, at a more advanced period

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periods, not of the disease, but of the inflammation, for as already explained, these periods often differed widely, the Stomach was not found to be inflamed, neither did it contain black vomit, the inflammation having subsided, and the black vomit if any, having been evacuated, or essentially changed.

It is remarkable, that whilst black vomit was in, so far instances, thrown up by the living, it was frequently found in the Stomach of the dead, which was found more frequently inflamed, than containing black vomit.

The degree of inflammation of the Stomach, from post mortem evidence, was very various, from a mere blush, to the fullest injection of its vessels, sometimes affecting only the pyloric extremity, or appearing in spots. In some few instances, inflammation was seen to extend to the different divisions of the intestines, and in two cases, the Stomach was so sphacelated, that its inner coat, was easily rubbed off.

The liver, was most commonly pale, and sometimes the gall bladder, was quite empty, but in this, there was no uniformity, it being sometimes quite full of a very dark, and at other times perfectly natural bile. And it has contained a small quantity of bile, mingled with serum, and I have seen more than once, a thin serous fluid, without the least tinge of bile, in the gall bladder.

There were not wanting instances, in which the urinary apparatus, appeared to have sympathies in a manner equally remarkable. In those terminating fatally, the urine, with few exceptions, was deficient. And I have found the bladder quite empty, or containing an imperfect urine, mingled with mucus, or discoloured with blood, or of a deep yellow tinge. Even the thickened coats of the bladder, have obscurely exhibited, traces of inflammation.

The vessels of the pia mater, and of the

the substance of the brain, were frequently injected with blood, and effusions of water, frequently of a saffron yellow, have been found in the ventricles of the brain, and there was sometimes, a more, than natural determination of blood, to the vessels of the spinal marrow.

